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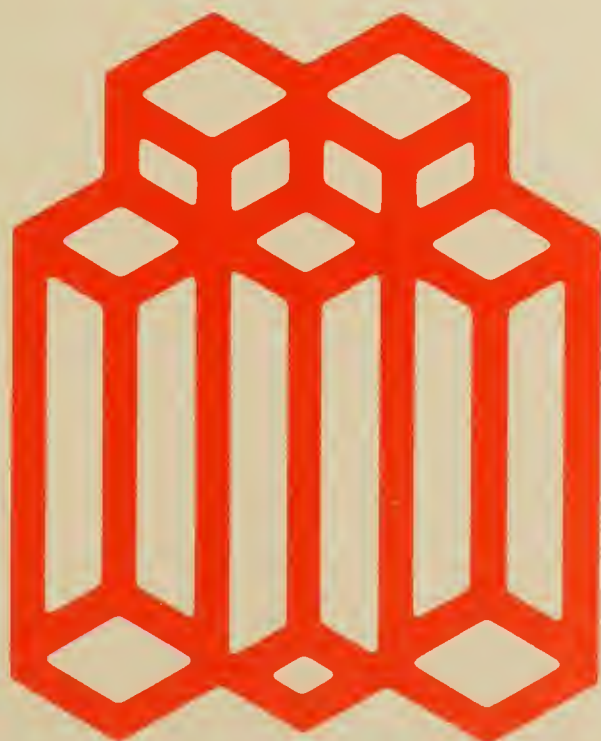
Census of Mineral Industries

MIC82-I-14A

INDUSTRY SERIES

Stone

Industries 1411, 1422, 1423, and 1429



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The publications
from the 1982 Economic and
Agriculture Censuses are dedicated
to the memory of Shirley Kallek,
Associate Director for Economic Fields.
During her career at the Bureau of the
Census (1955 to 1983), she continually
directed efforts to improve
the timeliness and accuracy of
economic statistics.

1982

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Issued February 1985



U.S. Department of Commerce
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Clarence J. Brown, Deputy Secretary
Sidney Jones, Under Secretary for
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ACKNOWLEDGMENTS—Many persons participated in the various activities of the 1982 Census of Mineral Industries. Primary direction of the program was performed by Shirley Kallek, Associate Director for Economic Fields (until May 1983), Charles A. Waite, her successor, and Michael G. Farrell, Assistant Director for Economic and Agriculture Censuses (until August 1984), and John H. Berry, his successor.

This report was prepared in the Industry Division under the general direction of Roger H. Bugenhagen, Chief (until April 1983), and Gaylord E. Worden, his successor. Jacob Silver, Assistant Chief for Mineral Industries and Special Reports, was responsible for the overall management of the census of mineral industries. He guided the planning and implementation of the project and coordinated activities with other divisions.

Program responsibility was shared by the following individuals who participated importantly in the entire program: John P. McNamee, Chief, Minerals Branch; Dale W. Gordon, Chief, Census/ASM Durables Branch; Michael J. Zampogna, Chief, Census/ASM Nondurables Branch; Bernard J. Fitzpatrick, Chief, Census Special Reports Branch (until April 1983), Bruce M. Goldhirsch, his successor; and Kenneth I. Hansen, Chief, Annual Survey of Manufactures Branch.

Evelyn A. Jordan was directly responsible for the analysis of the data and preparation of this report.

Dr. Edward A. Robinson, Senior Industry Statistician, made significant contributions to the basic economic concepts and content of the census. The computer processing systems were developed and coordinated under the direction of William E. Norfolk, Assistant Chief for Operations. Sarah A. Mathis, Chief, Census Programming Branch, was responsible for implementation of the computer systems, and the computer programs were prepared under the supervision of David Onions and Gerald S. Turnage, assisted by Barbara A. Lambert and Willie T. Robertson. The mathematical techniques and quality control requirements were developed by Preston J. Waite, Assistant Chief for Research and Methodology, assisted by Stacey Cole, Pamela McKee, Amelia M. Peregoy, Magdalene Ramos, and Anne M. Stephens.

Industry classification was controlled by Bruce M. Goldhirsch; coordination activities with Data Preparation Division were carried out by Eric Taylor; and the various phases of the publication process were coordinated by Lillie Mae Skinner. Other persons made important contributions in such areas as developing specifications, procedures, and resolving problems. They include Richard J. Sterner, Robert A. Rosati, Richard Sweeney, Cyr F. Linonis, Leonard Pomeroy, Patricia L. Horning, and Dennis L. Wagner.

Systems and procedures for mailout, receipt, correspondence, data input, industry classification, other clerical processing, administrative

record processing, and quality control, along with the associated electronic computer programs, were developed in the Economic Surveys Division, W. Joel Richardson, Chief.

Planning, design, review, and composition of report forms were performed in the Administrative Services Division, Robert L. Kirkland, Chief.

Publication planning, design, editorial review, composition, and printing procurement were performed in the Publications Services Division, Raymond J. Koski, Chief.

Geographic coding procedures and associated computer programs were developed in the Geography Division, Robert W. Marx, Chief.

Mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review were performed in the Data Preparation Division, Don L. Adams, Chief.

Computer processing was performed in the Computer Services Division, C. Thomas DiNenna, Chief (until February 1984), and John E. Halterman, his successor.

Photocomposition programs for the statistical tables were developed in the Systems Support Division, Larry J. Patin, Chief (until October 1983), and Arnold E. Levin, his successor.

Special-purpose computer programs for disclosure analysis were developed in the Business Division, Gerald F. Cranford, Chief (until December 1983), and Howard N. Hamilton, his successor.

The overall planning and review of the census operations were performed by the staff of the office of the Assistant Director for Economic and Agriculture Censuses.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

Library of Congress Cataloging in Publication Data

Census of mineral industries (1982)
1982 census of mineral industries.

Contents: [1] Subject series — [2] Industry series — [3] Geographic area series.

Supt. of Docs. no.: C 3.216: MIC82-I-

1. Mineral industries--United States--Statistics.

I. United States. Bureau of the Census. II. Title.

HD9506.U62C45

1984

338.2'0973

83-600142

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

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ECONOMIC CENSUSES OVER TIME

The early beginnings of America's industrial output were first measured in the United States in the 1810 Decennial Census and again in 1820, when questions on manufacturing were included with those for population. Beginning with the 1840 Decennial Census, there were enumerations of manufactures and mineral industries at 10-year intervals up to and including the year 1900 for manufactures and 1940 for mineral industries. The latter census was taken again for 1954, 1958, 1963, and 1967.

Because of the increasing dominance of manufacturing in the early 20th century, Congress directed that quinquennial censuses of manufactures be taken beginning in 1905. However, from 1919 through 1939, these censuses were conducted every 2 years. The need for war-related current surveys in the early 1940's postponed the next census of manufactures until 1948 (for 1947). That census was again taken for 1954, 1958, 1963, and 1967.

Retail and wholesale trade data were first collected in 1930, and in 1933 information on selected service industries was added to the data-collection operation. These business censuses, as they were called, were again taken for 1935, 1939 (as part of the 1940 decennial program), 1948, 1954, 1958, 1963, and 1967.

Information on construction industries was first obtained in 1930 and again for 1935 and 1939. Data for the full spectrum of construction industries were not gathered again until 1968 (for 1967).

The need for transportation data to supplement information available from existing governmental or private sources was recognized by Congress in the late 1950's and early 1960's. The census of transportation (consisting of several surveys) was first taken for 1963 and again for 1967.

Since 1967, all of the above censuses have been taken quinquennially as part of the Census Bureau's economic census program. (For the 1977 censuses, the coverage of the service

industries was broadened from "selected services" to all services, except religious organizations and private households. A total of 41 additional four-digit standard industrial classifications¹ (SIC's) in 7 SIC major groups was added to the scope of the census. While most of the industries included for the first time for 1977 were covered again for 1982, some were not, i.e., hospitals; elementary and secondary schools; colleges, universities, and professional schools; junior colleges and technical institutes; labor unions and similar labor organizations; and political organizations.)

The first manufacturing census for an outlying area was conducted in Puerto Rico for the year 1909. Thereafter, with the exception of 1929, a census was taken at 10-year intervals through 1949. The first censuses of retail trade, wholesale trade, and selected service industries in Puerto Rico were conducted for 1939. These censuses also were taken for the years 1949, 1954, 1958, 1963, and 1967. A census of construction industries was first introduced in Puerto Rico for 1967. These censuses of Puerto Rico have been taken since then for the years 1972, 1977, and 1982.

Censuses of manufactures, retail trade, wholesale trade, and selected service industries were conducted in Guam and the Virgin Islands of the United States for 1958, 1963, 1967, 1972, 1977, and 1982. Censuses of mineral industries were taken in the Virgin Islands of the United States for the years 1958, 1963, and 1967 but not since that time. A census of construction industries was also undertaken in these areas for 1972, 1977, and 1982.

Retail trade, wholesale trade, selected service industries, manufacturing, and construction industries were canvassed for the first time in the Northern Mariana Islands in 1983 (for 1982).

For 1982, the economic censuses and agriculture censuses were conducted concurrently.

USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source for facts about the structure and functioning of the Nation's economy and provide essential information for government, business, industry, and the general public. They provide an important part of the framework for such composite measures as the gross national product, input-output measures, indexes of industrial production, and indexes measuring productivity and price levels. Information from the censuses is used to establish sampling frames and as benchmarks for current surveys of business activity, which are essential for measuring short-term economic conditions.

¹Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No.041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.

State and local governments use census data to assess business activities within their jurisdictions. The private sector uses the data to forecast general economic conditions; analyze sales performance; lay out sales territories; allocate funds for advertising; decide on locations for new plants, warehouses, or stores; and measure potential markets in terms of size, geographic areas, kinds of business, and kinds of products made or sold.

Following every census, thousands of businesses and other users purchase reports. Likewise, census facts are widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. All 1982 data are available on microfiche from the U.S. Government Printing Office and most data on computer tape from the Census Bureau. Finally, the more than 50 State Data Centers also are suppliers of economic census statistics.

AUTHORITY AND SCOPE OF THE ECONOMIC CENSUSES

The economic censuses are required by law under title 13 of the United States Code, sections 131, 191, and 224, which directs that they be taken at 5-year intervals for the years ending in 2 and 7. The 1982 Economic Censuses covered manufacturing, mining, construction industries, retail trade, wholesale trade, service industries, and selected transportation activities. Special programs also cover minority-owned and women-owned businesses. The next economic censuses are scheduled to be taken in 1988 for the year 1987.

CENSUS OF MINERAL INDUSTRIES

General

The 1982 Census of Mineral Industries is the 19th census of mining establishments in the United States. For 1982, it was conducted jointly with the censuses of manufactures, construction industries, retail and wholesale trades, service industries, selected transportation activities, and minority-owned and women-owned businesses.

This report, from the 1982 Census of Mineral Industries, is one of a series of 12 industry reports, each of which provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each geographic division showing statistics by State and on special subjects, such as size of establishments, type of organization, assets, capital expenditures, type of operation, and fuels and electric energy consumed.

These separate reports subsequently will be issued as portions of the final census volume. The volume—Subject, Industry, and Area Statistics—will show comparative figures for industries and States on the more important measures of the activity of mining establishments, such as employment, payrolls, value of shipments and receipts, capital expenditures, value added by mining, selected supplies consumed, and energy used. It will include, besides the industry statistics, geographic area statistics (number of establishments, employment, payrolls, value added, cost of supplies, value of shipments and receipts, and capital expenditures) for each State and county, by industry group. The introduction to the final volume of the census of mineral industries will discuss, at greater length, many of the subjects

described in this introduction. For example, the volume text will discuss the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

Scope of Census and Definition of Mineral Industries

The 1982 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the 1972 Standard Industrial Classification (SIC) Manual.¹ This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This system of classification is in general use among government agencies as well as organizations outside the government.

The SIC manual defines mining in the broad sense to include the extraction of minerals occurring naturally: Solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.) and other preparation needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste minerals piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities are not included in this division but are classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1982 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

Establishment Basis of Reporting

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A firm operating more than one establishment

¹Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No.041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176 0.

is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or off-shore area adjacent to a State in which it conducted such activities and to include employment, production, and capital expenditures data at the county level. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and to include information on receipts for services by State and county. These consolidated reports were then allocated to county establishments based on the data reported at the county level. The 1982 figures for establishments include the summation of operations within each county allocated from these State or nationwide reports and, therefore, are not comparable to prior censuses.

Establishments, as presented in this report, are those in operation "during the year." In the General Summary report (MIC82-S-1), a comparison will be made at the U.S. level of the number of establishments in operation "during the year" and at the "end of the year."

Use of Administrative Records

From a mailout universe of about 36,000 mining establishments, approximately 11,000 small single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment nonmail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description is incomplete, or where there are relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1982 census, as in the 1977, 1972, and 1967 censuses, data for single-unit firms without paid employees were

excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

Auxiliary Establishments

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses, storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (Form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

Industry Classification of Establishments

Each of the establishments covered by the census was classified in one of 42 mineral industries in accordance with the industry definitions in the SIC system. Under this system of classification, an industry is generally defined as a group of establishments producing the same main product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, and number of employees. Application of these criteria led to formulation of 42 mining industries, to each of which a four-digit code number was assigned. The classification system also provides broader groups of industries, with twenty three-digit groups and five two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics also are usually provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

Value of Shipments for the Industry Compared With Value of Product Shipments

In census of mineral industries publications, value of shipments data are published for industries and products. Value of shipments and receipts data shown in tables 1 through 4 represent the total value of shipments and receipts of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6 represents the total value of all products shipped that are classified as primary to an industry and includes those that were shipped by all mining establishments regardless of their industry classification. Value of product shipments also may include some products shipped from mining operations associated with manufacturing establishments.

CENSUS DISCLOSURE RULES

The Bureau of the Census is prohibited by Federal law from publishing any statistics that disclose information reported by individual companies. However, the number of companies classified in a specific industry is not considered a disclosure, so this item may be given even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1-4 of this report is based on the total value of shipments and receipts and capital expenditures. Whenever the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line has been suppressed. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher level totals.

MICROFICHE

All data in the final reports and volume are available on microfiche. Microfiche reports are sold by the Superintendent

of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

SPECIAL TABULATIONS

Public-use tapes are not available for 1982 Census of Mineral Industries data. However, special tabulations of data collected may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (such as name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Industry Division, Bureau of the Census, Washington, D.C. 20233.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

| | |
|--------|--|
| — | Represents zero. |
| (D) | Withheld to avoid disclosing data for individual companies. |
| (NA) | Not available. |
| (S) | Withheld because estimate did not meet publication standards on the basis of either the response rate or a consistency review. |
| (X) | Not applicable. |
| (Z) | Less than half the unit shown. |
| n.e.c. | Not elsewhere classified. |
| n.s.k. | Not specified by kind. |
| r | Revised. |
| SIC | Standard Industrial Classification. |

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons" or "l. tons."

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendix]

| Item | Industry and historical | Industry by State | Industry by type of operation | Industry by employ- ment size | Industry- product analysis | Detailed product shipments by State | Detailed supplies consumed by industry |
|--|-------------------------------|----------------------|-------------------------------------|-------------------------------------|----------------------------------|--|---|
| Number of operating companies | 1 | | | | | | |
| Establishments: | | | | | | | |
| Total number | 1 | 2,3a | 2,3b | 4 | | | |
| Employment size | 1 | 2,3a | 2,3b | 4 | | | |
| Employment and payroll: | | | | | | | |
| Number of employees | 1 | 2,3a | 2,3b | 4 | | | |
| Payroll | 1 | 2,3a | 2,3b | 4 | | | |
| Production, development, and exploration— | | | | | | | |
| Workers | 1 | 2,13a | 2,13b | 4 | | | |
| Hours | 1 | 2,13a | 2,13b | 4 | | | |
| Wages | 1 | 2,3a | 2,3b | 4 | | | |
| Supplemental labor costs | | 13a | 13b | | | | |
| Value added, cost of supplies, ship- ments, and inventories: | | | | | | | |
| Value added by mining | 1 | 2,3a | 2,3b | 4 | | | |
| Cost of supplies | 1 | 2,3a | 2,3b | 4 | | | 17a |
| Resales, cost and value | | 3a | 3b | | | | |
| Purchased fuels consumed | | 3a | 3b | | | | 17b |
| End-of-year fuels stocks | | | | | | | 17b |
| Purchased electricity | | 13a | 13b | | | | |
| Cost of contract work | | 3a | 3b | | | | |
| Industry shipments and receipts | 1 | 2,3a | 2,3b | 4 | 15 | | |
| Value of net shipments | 1 | | | | 15 | | |
| Product shipments | | | | | | 6 | |
| Inventories | 3c | | | | | | |
| Gross book value of depreciable or depletable assets, beginning and end of year; depreciation and depletion charges for year: | | | | | | | |
| Buildings and structures, except land | | 3a | 3b | | | | |
| Machinery and equipment | | 3a | 3b | | | | |
| Mineral exploration and development | | 3a | 3b | | | | |
| Mineral land and rights | | 3a | 3b | | | | |
| New and used capital expenditures, excluding land and rights: | | | | | | | |
| Total | 1 | 2,3a | 2,3b | 4 | | | |
| Buildings and structures | | 3a | 3b | | | | |
| Machinery and equipment | | 3a | 3b | | | | |
| Mineral exploration and development | | 3a | 3b | | | | |
| Capitalized mineral land and rights . . . | | 3a | 3b | | | | |
| Rental payments | | 13a | 13b | | | | |
| Expensed mineral exploration, develop- ment, land, and rights | | 13a | 13b | | | | |

¹Detailed information shown.

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DESCRIPTION OF INDUSTRIES AND SUMMARY OF FINDINGS

STONE

This report shows 1982 Census of Mineral Industries statistics for establishments classified in each of the following industries:

SIC Code and Title

| | |
|------|----------------------------------|
| 1411 | Dimension Stone |
| 1422 | Crushed and Broken Limestone |
| 1423 | Crushed and Broken Granite |
| 1429 | Crushed and Broken Stone, N.E.C. |

Industry statistics (employment, payroll, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments, but also all secondary activities performed by the same establishments. This fact should be taken into account in comparing industry statistics (tables 1 through 4 and 7) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. This information was used in conjunction with industry averages and other information to develop estimates for all statistics. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification Manual and its 1977 supplement.¹

All dollar figures shown in this report are in current dollars for the year specified and have not been adjusted for changes in price levels. Therefore, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

¹Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.

INDUSTRY 1411, DIMENSION STONE

The industry includes establishments primarily engaged in mining or quarrying dimension stone. Also included are establishments primarily engaged in producing rough blocks and slabs. Establishments primarily engaged in mining or quarrying and shaping grindstones, pulpstones, millstones, burrstones, and sharpening stones are classified in Industry 1499, Miscellaneous Nonmetallic Minerals, N.E.C.; and those mining or quarrying dimension soapstone in Industry 1496, Talc, Soapstone, and Pyrophyllite. Establishments primarily engaged in dressing (shaping, polishing, or otherwise finishing) rough blocks and slabs are classified in Industry 3281, Cut Stone and Stone Products. Nepheline syenite operations are classified in Industry 1459, Clay, Ceramic, and Refractory Minerals, N.E.C.

Establishments classified in Industry 1411, Dimension Stone, as interpreted in the 1982, 1977, and 1972 minerals censuses, represent quarries with or without dressing plants operated as part of the same establishment if the establishment was primarily shipping rough dimension stone. In the 1963 and 1958 minerals censuses, only those quarries without dressing plants were included in industry 1411.

The total value of shipments and receipts for the industry was \$64 million in 1982. The value added by mining was \$50 million. Total employment for the industry decreased to 1.5 thousand employees in 1982, from 1.9 thousand in 1977. Value added per employee was \$33.3 thousand in 1982; in 1977, it was \$20.3 thousand.

Establishments of single-unit companies in this industry with up to 3 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 35 percent of total value of shipments and receipts.

Selected statistics for Dimension Stone Quarries included in manufacturing establishments are shown separately in table 2b of this report.

INDUSTRY 1422, CRUSHED AND BROKEN LIMESTONE

The industry includes establishments primarily engaged in mining, or otherwise quarrying crushed and broken limestone. Also included are establishments primarily engaged in producing related rocks, such as dolomite, cement rock, marl, travertine, and calcareous tufa. Also included are establishments primarily engaged in grinding or pulverizing limestone, but establishments primarily engaged in producing lime are classified in Industry 3274, Lime. The total value of shipments and receipts for the industry was \$1,756 million in 1982. The value added by mining was \$1,229 million. Total employment for the industry

decreased to 26 thousand employees in 1982, from 29 thousand in 1977. Value added per employee was \$47.3 thousand in 1982; in 1977, it was \$34.5 thousand.

Establishments of single-unit companies in this industry with up to 9 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 13 percent of total value of shipments and receipts.

Selected statistics for crushed and broken limestone quarries included in manufacturing establishments are shown separately in table 2b of this report.

INDUSTRY 1423, CRUSHED AND BROKEN GRANITE

The industry includes establishments primarily engaged in mining or otherwise quarrying crushed and broken granite. Also included are establishments primarily engaged in producing related rocks, such as gneiss, syenite, and diorite. The total value of shipments and receipts for the industry was \$384 million in 1982. The value added by mining was \$259 million. Total employment for the industry increased to 4.5 thousand employees in 1982, from 4.4 thousand in 1977. Value added per employee was \$57.6 thousand in 1982; in 1977, it was \$43.6 thousand.

Establishments of single-unit companies in this industry with up to 9 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 4 percent of total value of shipments and receipts.

Selected statistics for crushed and broken granite quarries included in manufacturing establishments are shown separately in table 2b of this report.

INDUSTRY 1429, CRUSHED AND BROKEN STONE, N.E.C.

The industry includes establishments primarily engaged in mining or otherwise quarrying crushed and broken stone, n.e.c., such as slate (including slate granules), marble, trap rock (basalt, diabase, and related rocks), sandstone (including quartzite and gneiss), and various light-colored volcanic rocks, mica schist, and mixed boulders. The total value of shipments and receipts for the industry was \$431 million in 1982. The value added by mining was \$300 million. Total employment for the industry decreased to 6.5 thousand employees in 1982, from 7.4 thousand in 1977. Value added per employee was \$46.2 thousand in 1982; in 1977, it was \$41.4 thousand.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 26 percent of total value of shipments and receipts.

Selected statistics for Crushed and Broken Stone, N.E.C., quarries included in manufacturing establishments are shown separately in table 2b of this report.

COMPARABILITY WITH BUREAU OF MINES STATISTICS

The Bureau of the Census statistics on products for industries 1411, 1422, 1423, and 1429 are not entirely comparable with product statistics for the same industries published by the Bureau of Mines. The differences that occur result primarily from differences in data collection methods, coverage, and objectives sought. For example:

1. The Bureau of Mines includes all establishments regardless of size. The Bureau of the Census excludes single-unit establishments with no paid employees. However, the contributions to products of such small operations are usually very small.
2. The Bureau of Mines conducts a complete canvass of stone products for odd-numbered years. In even-numbered years, the Bureau of Mines collects production information on a sample basis for the first 9 months only. Results are used to generate preliminary State annual estimates. This survey canvasses the large companies in each State producing up to 75 percent of the State total tonnage.
3. The Bureau of the Census collects information on production and shipments and calculates net shipments; whereas, the Bureau of Mines generally obtains figures on products sold or used.
4. The Bureau of the Census figures are sometimes reported at a different level of preparation than the Bureau of Mines figures.
5. For dimension stone, the Bureau of the Census figures represent shipments of rough dimension stone from separately operated quarries as well as shipments of rough dimension stone and dressed dimension stone from quarries with associated dressing plants located at the quarry site. No figures are included in the census of mineral industries for shipments of dressed dimension stone from dressing plants not operated in conjunction with a quarry, even though such a dressing plant may be an integral part of a company engaged in quarrying and dressing stone. The Bureau of Mines production data are compiled on the basis of quantities and value of sales of both rough blocks and finished products by primary producers. These Bureau of Mines figures are compiled on a company basis. For example, in the case of a stone company having three establishments: (a) a quarry with no dressing plant; (b) a quarry with a dressing plant; and (c) a separately operated dressing plant, the Bureau of the Census figures would include only the first two types of establishments, whereas, the Bureau of Mines would compile its figures on output of stone for this company on the basis of the figures reported by all three types of establishments. Thus, the Bureau of Mines figures would show more dressed dimension stone shipped than would be shown by the Bureau of the Census. There is a considerable tonnage loss in fabricating dressed stone from rough blocks. Accordingly, it would be expected that the aggregate Bureau of Mines tonnage would be less than that of the Bureau of the Census even though the operations of the same companies were covered by both agencies.

Table 1. Historical Industry Statistics: 1982 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

| Year | Companies (number) | Establishments during year | | All employees | | Production, development, and exploration workers | | | Value added by mining (million dollars) | Cost of supplies used, purchased machinery installed, etc. (million dollars) | Value of shipments and receipts (million dollars) | Value of net ship- ments and receipts ¹ (million dollars) | Quantity of primary products ² | Capital expendi- tures (million dollars) |
|---|-----------------------|-------------------------------|---|-------------------|---------------------------------|---|---------------------|-------------------------------|---|--|--|---|--|--|
| | | Total (number) | With 20 employees or more (number) | Number (1,000) | Payroll (million dollars) | Number (1,000) | Hours (millions) | Wages (million dollars) | | | | | | |
| INDUSTRY 1411, DIMENSION STONE | | | | | | | | | | | | | | |
| 1982 ³ ----- | 137 | 154 | 22 | 1.5 | 21.2 | 1.2 | 2.1 | 16.0 | 50.2 | 16.8 | 63.8 | (D) | (D) | 3.3 |
| 1977 ³ ----- | 185 | 209 | 23 | 1.9 | 18.6 | 1.6 | 2.7 | 14.0 | 38.5 | 13.2 | 49.0 | 48.5 | 1.3 | 2.7 |
| 1972 ³ ----- | 169 | 197 | 26 | 2.0 | 13.1 | 1.8 | 3.1 | 11.1 | 26.0 | 7.3 | 31.4 | 31.2 | 1.9 | 1.9 |
| 1967 ³ ----- | (NA) | 244 | 21 | 1.9 | 9.3 | 1.8 | 3.3 | 7.6 | 18.1 | 5.2 | 22.1 | 22.1 | 1.3 | 1.1 |
| 1963----- | 4289 | 319 | 25 | 2.2 | 7.8 | 2.0 | 3.8 | 7.0 | 14.8 | 6.0 | 19.7 | 19.2 | 1.3 | 1.1 |
| 1958----- | 4306 | 335 | 26 | 2.3 | 7.1 | 2.1 | 3.7 | 6.1 | 13.1 | 4.0 | 15.9 | 15.7 | 1.2 | 1.2 |
| INDUSTRY GROUP 142, CRUSHED AND BROKEN STONE | | | | | | | | | | | | | | |
| 1982 ³ ----- | 1 177 | 1 932 | 567 | 36.8 | 700.9 | 28.2 | 57.2 | 493.6 | 1 787.2 | 1 053.5 | 2 571.5 | 2 554.9 | 750.0 | 269.3 |
| 1977 ³ ----- | 41 230 | 2 055 | 655 | 40.9 | 543.0 | 33.0 | 68.2 | 396.9 | 1 501.1 | 796.0 | 2 046.1 | 1 857.0 | (D) | 251.1 |
| 1972 ³ ----- | (NA) | 1 537 | 669 | 41.5 | 387.7 | 33.7 | 75.6 | 291.3 | 982.2 | 523.0 | 1 319.4 | 1 305.6 | 730.3 | 185.9 |
| 1967 ³ ----- | (NA) | 2 033 | 714 | 43.0 | 280.8 | 35.8 | 80.7 | 215.7 | 704.7 | 368.4 | 963.5 | 852.4 | 574.5 | 109.5 |
| 1963----- | 41 780 | 2 256 | 668 | 43.2 | 229.1 | 36.2 | 80.8 | 177.8 | 581.7 | 295.9 | 794.9 | 775.7 | 474.4 | 82.7 |
| 1958----- | 41 609 | 1 989 | 651 | 41.7 | 189.8 | 35.1 | 76.2 | 148.4 | 449.4 | 240.6 | 620.7 | 606.9 | 385.9 | 69.3 |
| INDUSTRY 1422, CRUSHED AND BROKEN LIMESTONE | | | | | | | | | | | | | | |
| 1982 ³ ----- | 787 | 1 314 | 378 | 25.8 | 497.9 | 19.8 | 40.0 | 350.6 | 1 228.7 | 712.1 | 1 756.1 | 1 741.8 | 535.9 | 184.7 |
| 1977 ³ ----- | 837 | 1 457 | 452 | 29.1 | 392.1 | 23.2 | 47.4 | 280.5 | 1 002.9 | 553.6 | 1 378.5 | 1 366.0 | 531.7 | 178.1 |
| 1972 ³ ----- | (NA) | 1 374 | 476 | 30.0 | 278.8 | 24.3 | 54.3 | 209.2 | 690.4 | 349.5 | 906.8 | 898.4 | 507.7 | 133.1 |
| 1967 ³ ----- | (NA) | 1 484 | 510 | 30.8 | 197.5 | 25.8 | 58.5 | 153.6 | 492.2 | 253.1 | 666.6 | 558.6 | 436.7 | 78.7 |
| 1963----- | 1 277 | 1 612 | 491 | 31.1 | 160.6 | 26.3 | 59.4 | 126.8 | 408.5 | 194.0 | 542.9 | 528.0 | 355.8 | 59.5 |
| 1958----- | 1 181 | 1 463 | 487 | 31.5 | 143.7 | 26.5 | 57.3 | 111.5 | 334.8 | 179.4 | 459.6 | 447.5 | 293.6 | 54.5 |
| INDUSTRY 1423, CRUSHED AND BROKEN GRANITE | | | | | | | | | | | | | | |
| 1982 ³ ----- | 85 | 189 | 90 | 4.5 | 76.7 | 3.7 | 7.6 | 56.7 | 259.0 | 164.2 | 384.2 | 382.6 | 96.6 | 39.1 |
| 1977 ³ ----- | 69 | 162 | 93 | 4.4 | 51.2 | 3.9 | 8.7 | 42.0 | 192.0 | 112.7 | 272.5 | (D) | (D) | 32.2 |
| 1972 ³ ----- | 74 | 155 | 94 | 4.5 | 38.5 | 4.0 | 9.5 | 32.5 | 119.8 | 82.2 | 172.1 | 171.7 | 107.2 | 30.0 |
| 1967 ³ ----- | (NA) | 149 | 80 | 4.5 | 27.1 | 3.9 | 8.9 | 22.0 | 80.1 | 47.1 | 114.2 | 114.0 | 61.4 | 13.0 |
| 1963----- | 95 | 150 | 65 | 4.1 | 19.8 | 3.4 | 7.9 | 16.0 | 61.7 | 35.2 | 89.7 | 89.6 | 48.7 | 7.2 |
| 1958----- | 87 | 121 | 61 | 3.3 | 13.0 | 2.9 | 6.4 | 10.8 | 33.5 | 15.0 | 5.8 | 49.6 | 33.3 | 4.7 |
| INDUSTRY 1429, CRUSHED AND BROKEN STONE, N.E.C. | | | | | | | | | | | | | | |
| 1982 ³ ----- | 343 | 429 | 99 | 6.5 | 126.4 | 4.8 | 9.6 | 86.4 | 299.6 | 177.1 | 431.2 | 430.5 | 117.5 | 45.5 |
| 1977 ³ ----- | 324 | 436 | 110 | 7.4 | 99.7 | 6.0 | 12.1 | 74.4 | 306.2 | 129.8 | 395.1 | (D) | 144.2 | 40.8 |
| 1972 ³ ----- | 291 | 408 | 99 | 7.0 | 70.4 | 5.4 | 11.8 | 49.6 | 172.0 | 91.3 | 240.5 | 235.5 | 115.4 | 22.8 |
| 1967 ³ ----- | (NA) | 400 | 124 | 7.7 | 56.2 | 6.1 | 13.3 | 40.1 | 132.4 | 68.2 | 182.7 | 179.8 | 76.5 | 17.8 |
| 1963----- | 408 | 494 | 112 | 8.1 | 48.7 | 6.4 | 13.6 | 35.0 | 111.5 | 66.7 | 162.2 | 158.2 | 68.4 | 16.0 |
| 1958----- | 341 | 385 | 105 | 6.9 | 33.1 | 5.8 | 12.5 | 26.1 | 81.1 | 40.4 | 111.4 | 110.1 | 56.6 | 10.1 |

Note: For data prior to 1958, see 1963 Census of Mineral Industries, volume I, table 1 of industry chapter.

¹Represents gross shipments less minerals received from other establishments for preparation.

²Represents product, indicated by the industry title, in million short tons and net shipments (gross shipments less stone received for dressing or crushing).

³Beginning with 1967, data for single-unit establishments without paid employees were excluded from the census.

⁴Represents sum of figures for separate industries and may include some duplication due to the same company operating in more than one industry.

Table 2a. Industry Statistics for Selected States and Type of Operation: 1982 and 1977

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

| Industry, geographic area, and type of operation | 1982 | | | | | | | | | | | 1977 | | |
|--|----------------|----------------------------|------------------------------------|-----------------------------|---------------------------|--|------------------|-------------------------|---|--|---|--|------------------------------------|---|
| | E ¹ | Establishments during year | | All employees | | Production, development, and exploration workers | | | Value added by mining (million dollars) | Cost of supplies used, purchased machinery installed, etc. (million dollars) | Value of shipments and receipts (million dollars) | Capital expenditures (million dollars) | All employees ² (1,000) | Value added by mining (million dollars) |
| | | Total (number) | With 20 employees or more (number) | Number ² (1,000) | Payroll (million dollars) | Number (1,000) | Hours (millions) | Wages (million dollars) | | | | | | |
| INDUSTRY 1411, DIMENSION STONE | | | | | | | | | | | | | | |
| Geographic Area | | | | | | | | | | | | | | |
| United States ----- | E3 | 154 | 22 | 1.5 | 21.2 | 1.2 | 2.1 | 16.0 | 50.2 | 16.8 | 63.8 | 3.3 | 1.9 | 38.5 |
| Georgia ----- | E2 | 17 | 2 | .2 | 1.8 | .2 | .3 | 1.8 | 3.6 | 1.2 | 4.6 | .2 | .2 | 3.0 |
| Indiana ----- | E2 | 7 | 4 | .1 | 2.3 | .1 | .2 | 1.6 | 4.3 | 1.4 | 5.4 | .3 | .1 | 2.2 |
| South Dakota ----- | E9 | 3 | 1 | AA | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| Vermont ----- | - | 10 | 6 | BB | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | BB | (D) |
| Type of Operation | | | | | | | | | | | | | | |
| Producing establishments ----- | E3 | 149 | 21 | 1.5 | 21.2 | 1.2 | 2.1 | 16.0 | 50.2 | 16.8 | 63.8 | 3.3 | EE | (D) |
| Mines only ----- | E4 | 132 | 13 | 1.2 | 15.7 | 1.0 | 1.7 | 13.2 | 43.3 | 14.1 | 54.6 | 2.8 | EE | (D) |
| Open pit ----- | E4 | 132 | 13 | 1.2 | 15.7 | 1.0 | 1.7 | 13.2 | 43.3 | 14.1 | 54.6 | 2.8 | EE | (D) |
| Mines with preparation plants ----- | - | 13 | 6 | .2 | 3.6 | .2 | .4 | 2.7 | 7.0 | 2.7 | 9.2 | .5 | .2 | 4.6 |
| Open pit ----- | - | 13 | 6 | .2 | 3.6 | .2 | .4 | 2.7 | 7.0 | 2.7 | 9.2 | .5 | .2 | 4.6 |

See footnotes at end of table.

Table 2a. Industry Statistics for Selected States and Type of Operation: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

| Industry, geographic area, and type of operation | 1982 | | | | | | | | | | | 1977 | | |
|--|----------------|----------------------------|------------------------------------|-----------------------------|---------------------------|--|------------------|-------------------------|---|--|---|--|------------------------------------|---|
| | E ¹ | Establishments during year | | All employees | | Production, development, and exploration workers | | | Value added by mining (million dollars) | Cost of supplies used, purchased machinery installed, etc. (million dollars) | Value of shipments and receipts (million dollars) | Capital expenditures (million dollars) | All employees ² (1,000) | Value added by mining (million dollars) |
| | | Total (number) | With 20 employees or more (number) | Number ² (1,000) | Payroll (million dollars) | Number (1,000) | Hours (millions) | Wages (million dollars) | | | | | | |
| INDUSTRY 1422, CRUSHED AND BROKEN LIMESTONE | | | | | | | | | | | | | | |
| Geographic Area | | | | | | | | | | | | | | |
| United States | E1 | 1 314 | 378 | 25.8 | 497.9 | 19.8 | 40.0 | 350.6 | 1 228.7 | 712.1 | 1 756.1 | 184.7 | 29.1 | 1 002.9 |
| Alabama | - | 26 | 8 | .7 | 19.0 | .4 | .7 | 5.0 | 26.7 | 17.9 | 40.3 | 4.3 | .8 | 28.6 |
| Arkansas | E5 | 13 | 5 | .2 | 3.3 | .2 | .3 | 2.7 | 8.8 | (D) | 12.7 | (D) | .3 | 10.6 |
| California | - | 26 | 8 | .7 | 15.2 | .4 | .8 | 7.4 | 34.2 | 16.5 | 45.3 | 5.4 | .6 | 21.0 |
| Colorado | E5 | 14 | 2 | .2 | 3.2 | .1 | .2 | 2.3 | 7.4 | 4.2 | 10.7 | .9 | .1 | 4.2 |
| Florida | E2 | 46 | 22 | 1.6 | 27.0 | 1.4 | 2.9 | 21.9 | 91.2 | 51.9 | 131.4 | 11.7 | 1.0 | 38.3 |
| Georgia | - | 12 | 7 | .4 | 5.7 | .3 | .5 | 3.3 | 14.8 | 8.1 | 21.9 | .9 | .4 | 10.0 |
| Illinois | - | 107 | 27 | 1.8 | 40.0 | 1.4 | 3.0 | 30.6 | 110.6 | 58.8 | 153.5 | 15.9 | 2.4 | 85.2 |
| Indiana | - | 71 | 17 | EE | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 1.5 | 56.1 |
| Iowa | E1 | 96 | 19 | 1.3 | 25.8 | 1.1 | 2.1 | 18.8 | 68.3 | (D) | 96.4 | (D) | EE | (D) |
| Kansas | - | 33 | 9 | .5 | 8.3 | .4 | .8 | 6.5 | 22.2 | 7.9 | 27.7 | 2.4 | .6 | 19.0 |
| Kentucky | E2 | 85 | 36 | 1.8 | 28.6 | 1.4 | 2.9 | 20.7 | 76.5 | (D) | 108.9 | (D) | 1.9 | 70.8 |
| Maryland | - | 14 | 7 | .4 | 7.0 | .3 | .7 | 6.0 | 38.9 | (D) | 42.6 | (D) | .4 | 16.2 |
| Michigan | - | 18 | 7 | EE | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 1.6 | 53.0 |
| Minnesota | E2 | 13 | 5 | .2 | 5.1 | .2 | .3 | 3.0 | 9.7 | 6.0 | 14.6 | 1.1 | .3 | 7.1 |
| Missouri | E2 | 150 | 25 | 1.8 | 31.5 | 1.5 | 2.7 | 24.0 | 66.4 | 40.0 | 97.5 | 8.9 | 1.8 | 61.1 |
| Nebraska | - | 10 | 4 | AA | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | AA | (D) |
| New Jersey | - | 3 | 2 | AA | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | AA | (D) |
| New York | - | 50 | 9 | 1.0 | 24.0 | .7 | 1.5 | 17.6 | 53.9 | 29.6 | 79.8 | 3.6 | 1.1 | 38.5 |
| North Carolina | - | 12 | 4 | .3 | 4.0 | .2 | .3 | 2.6 | 12.3 | 6.7 | 18.1 | .9 | .3 | 11.6 |
| Ohio | E1 | 90 | 22 | 1.6 | 33.5 | 1.1 | 2.1 | 20.4 | 62.7 | 32.6 | 81.5 | 13.9 | 2.0 | 68.2 |
| Oklahoma | - | 38 | 14 | 1.1 | 21.6 | .9 | 2.0 | 16.1 | 54.8 | (D) | 88.2 | (D) | .8 | 32.8 |
| Pennsylvania | E1 | 102 | 33 | 2.3 | 45.6 | 1.6 | 3.1 | 29.8 | 105.3 | 60.4 | 148.1 | 17.5 | 3.1 | 92.7 |
| Tennessee | - | 71 | 20 | EE | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 1.4 | 52.6 |
| Texas | - | 40 | 20 | 1.4 | 24.4 | 1.2 | 2.9 | 20.7 | 80.0 | 51.3 | 115.7 | 15.6 | 1.2 | 33.8 |
| Vermont | - | 5 | 1 | AA | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (NA) | (NA) |
| Virginia | - | 46 | 17 | 1.0 | 14.5 | .8 | 1.5 | 10.2 | 35.2 | 19.5 | 48.5 | 6.2 | 1.3 | 40.5 |
| West Virginia | E1 | 21 | 10 | .5 | 8.0 | .4 | .8 | 5.9 | 17.9 | 15.6 | 31.6 | 2.0 | .5 | 17.6 |
| Wisconsin | E3 | 50 | 9 | .6 | 12.7 | .5 | 1.0 | 9.8 | 33.4 | 18.6 | 48.2 | 3.9 | .9 | 26.0 |
| Type of Operation | | | | | | | | | | | | | | |
| Producing establishments | E1 | 1 293 | 377 | 25.6 | 494.7 | 19.7 | 39.7 | 347.9 | 1 223.3 | 710.7 | 1 756.1 | 177.9 | FF | (D) |
| Mines only | E3 | 21 | 2 | .2 | 2.8 | .2 | .3 | 2.4 | 7.5 | 4.1 | 10.6 | 1.0 | CC | (D) |
| Open pit | E3 | 20 | 2 | AA | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | CC | (D) |
| Mines with preparation plants | E1 | 1 195 | 349 | 23.7 | 443.6 | 19.4 | 39.2 | 343.4 | 1 205.4 | 696.1 | 1 725.1 | 176.4 | 26.8 | 973.9 |
| Underground | - | 41 | 22 | 1.2 | 20.5 | 1.0 | 2.1 | 15.8 | 56.6 | 34.5 | 82.5 | 8.6 | 1.8 | 48.2 |
| Open pit | E1 | 1 142 | 316 | 21.9 | 410.5 | 17.8 | 36.0 | 317.0 | 1 115.9 | 644.7 | 1 594.8 | 165.8 | FF | (D) |
| Combination and other mining methods | - | 12 | 11 | .6 | 12.6 | .5 | 1.1 | 10.5 | 32.9 | 16.9 | 47.8 | 2.0 | BB | (D) |
| Separately operated preparation plants | E1 | 15 | 2 | .2 | 3.0 | .1 | .2 | 2.1 | 10.5 | 10.5 | 20.5 | .5 | AA | (D) |
| Undistributed ³ | - | 62 | 24 | 1.5 | 45.3 | - | - | - | - | - | - | - | 1.3 | - |
| Nonproducing establishments | - | 21 | 1 | .2 | 3.1 | .2 | .3 | 2.6 | 5.4 | 1.4 | - | 6.8 | AA | (D) |
| INDUSTRY 1423, CRUSHED AND BROKEN GRANITE | | | | | | | | | | | | | | |
| Geographic Area | | | | | | | | | | | | | | |
| United States | - | 189 | 90 | 4.5 | 76.7 | 3.7 | 7.6 | 56.7 | 259.0 | 164.2 | 384.2 | 39.1 | 4.4 | 192.0 |
| Arkansas | - | 1 | 1 | AA | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | BB | (D) |
| California | - | 18 | 5 | .3 | 7.6 | .3 | .5 | 6.4 | 21.1 | (D) | 31.9 | (D) | .1 | 4.8 |
| Colorado | - | 4 | 2 | BB | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (NA) | (NA) |
| Georgia | - | 39 | 21 | 1.0 | 17.7 | .8 | 1.8 | 12.4 | 69.4 | 40.4 | 103.3 | 6.4 | 1.1 | 50.1 |
| North Carolina | - | 47 | 27 | 1.1 | 19.6 | .8 | 2.0 | 12.8 | 63.9 | 38.7 | 91.7 | 10.9 | 1.1 | 40.1 |
| South Carolina | - | 15 | 7 | BB | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | .4 | 16.0 |
| Virginia | - | 23 | 17 | .7 | 12.0 | .6 | 1.2 | 8.7 | 41.2 | 23.6 | 59.6 | 5.2 | .6 | 25.5 |
| Type of Operation | | | | | | | | | | | | | | |
| Producing establishments | - | 186 | 90 | 4.5 | 76.6 | 3.7 | 7.6 | 56.7 | 259.0 | 164.2 | 384.2 | 39.1 | FF | (D) |
| Mines with preparation plants | - | 176 | 85 | 4.2 | 68.8 | 3.6 | 7.5 | 55.5 | 253.4 | 163.5 | 378.0 | 38.9 | 4.3 | 190.9 |
| Open pit | - | 176 | 85 | 4.2 | 68.8 | 3.6 | 7.5 | 55.5 | 253.4 | 163.5 | 378.0 | 38.9 | FF | (D) |
| Undistributed ³ | - | 8 | 4 | .2 | 6.3 | - | - | - | - | - | - | - | (D) | (D) |

See footnotes at end of table.

Table 2a. Industry Statistics for Selected States and Type of Operation: 1982 and 1977—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

| Industry, geographic area, and type of operation | 1982 | | | | | | | | | | | 1977 | | |
|--|------|----------------------------|------------------------------------|-----------------|---------------------------|--|------------------|-------------------------|---|--|---|--|------------------------|---|
| | E¹ | Establishments during year | | All employees | | Production, development, and exploration workers | | | Value added by mining (million dollars) | Cost of supplies used, purchased machinery installed, etc. (million dollars) | Value of shipments and receipts (million dollars) | Capital expenditures (million dollars) | All employees² (1,000) | Value added by mining (million dollars) |
| | | Total (number) | With 20 employees or more (number) | Number² (1,000) | Payroll (million dollars) | Number (1,000) | Hours (millions) | Wages (million dollars) | | | | | | |
| INDUSTRY 1429, CRUSHED AND BROKEN STONE, N.E.C. | | | | | | | | | | | | | | |
| Geographic Area | | | | | | | | | | | | | | |
| United States ----- | E2 | 429 | 99 | 6.5 | 126.4 | 4.8 | 9.6 | 86.4 | 299.6 | 177.1 | 431.2 | 45.5 | 7.4 | 306.2 |
| Alabama ----- | E1 | 5 | 3 | BB | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | .6 | 15.4 |
| California ----- | - | 35 | 9 | CC | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | .5 | 24.2 |
| Connecticut ----- | - | 13 | 6 | BB | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | AA | (D) |
| Georgia ----- | - | 10 | 6 | .4 | 5.6 | .3 | .6 | 3.8 | 19.1 | 7.5 | 24.6 | 1.9 | .3 | 10.7 |
| Hawaii ----- | - | 7 | 4 | .1 | 3.5 | .1 | .2 | 2.5 | 9.3 | 5.6 | 12.2 | 2.7 | (NA) | (NA) |
| Iowa ----- | E1 | 9 | 2 | .1 | 2.0 | (Z) | .1 | .8 | 1.5 | (D) | 3.2 | (D) | (NA) | (NA) |
| Kansas ----- | E3 | 8 | 3 | .2 | 2.5 | .1 | .2 | 1.7 | 5.5 | 2.0 | 7.0 | .5 | AA | (D) |
| Maryland ----- | - | 9 | 1 | AA | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | AA | (D) |
| Massachusetts ----- | E1 | 15 | 3 | .2 | 4.4 | .1 | .3 | 2.7 | 11.1 | 4.5 | 13.7 | 1.9 | AA | (D) |
| New Jersey ----- | E5 | 16 | 7 | .4 | 9.3 | .3 | .7 | 7.4 | 30.5 | (D) | 44.8 | (D) | CC | (D) |
| New York ----- | - | 16 | 7 | .3 | 7.9 | .2 | .5 | 4.9 | 17.8 | 7.8 | 22.2 | 3.4 | BB | (D) |
| North Carolina ----- | E3 | 17 | 6 | .4 | 7.2 | .2 | .5 | 3.0 | 11.8 | 6.9 | 17.6 | 1.2 | .4 | 7.9 |
| Oregon ----- | E2 | 41 | 4 | .3 | 6.6 | .2 | .4 | 4.7 | 17.5 | 6.3 | 22.2 | 1.5 | .4 | 17.0 |
| Pennsylvania ----- | E1 | 38 | 6 | CC | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | CC | (D) |
| Tennessee ----- | E5 | 9 | 1 | AA | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | AA | (D) |
| Texas ----- | E5 | 17 | 5 | BB | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | BB | (D) |
| Virginia ----- | E1 | 23 | 10 | .4 | 5.9 | .3 | .6 | 4.7 | 11.6 | 14.2 | 20.9 | 4.8 | .4 | 12.5 |
| Washington ----- | E4 | 20 | 3 | .2 | 3.6 | .1 | .3 | 3.0 | 8.3 | 4.5 | 11.7 | 1.1 | (NA) | (NA) |
| Wisconsin ----- | E2 | 12 | 3 | .1 | 3.4 | .1 | .2 | 2.7 | 9.6 | 7.1 | 15.7 | 1.0 | BB | (D) |
| Type of Operation | | | | | | | | | | | | | | |
| Producing establishments ----- | E2 | 415 | 99 | 6.4 | 125.8 | 4.7 | 9.5 | 85.9 | 300.2 | 176.5 | 431.2 | 45.5 | 7.3 | 306.1 |
| Mines with preparation plants ----- | E2 | 362 | 90 | 5.7 | 106.8 | 4.6 | 9.3 | 83.9 | 294.4 | 172.6 | 421.9 | 45.0 | 6.6 | 298.9 |
| Underground ----- | - | 5 | 4 | .3 | 4.8 | .2 | .5 | 3.6 | 14.3 | 8.9 | 21.9 | 1.2 | AA | (D) |
| Open pit ----- | E2 | 354 | 85 | 5.3 | 100.6 | 4.3 | 8.7 | 79.2 | 276.2 | 163.2 | 395.6 | 43.8 | 6.4 | 289.7 |
| Undistributed³ ----- | - | 36 | 8 | .6 | 16.3 | - | - | - | - | - | - | - | BB | - |

¹Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Data lines with less than 100 employees are not shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

³Includes data for separately operated auxiliary establishments which were not classified by type of operation.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for Selected States: 1982

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For explanation of use of administrative records, see appendix. For meaning of abbreviations and symbols, see introductory text.]

| Industry and geographic area | Establishments during year (number) | Production, development, and exploration workers | | Cost of supplies used, etc. (million dollars) | Quantity of production (1,000 s. tons) |
|--|-------------------------------------|--|-------------------------|---|--|
| | | Hours (millions) | Wages (million dollars) | | |
| DIMENSION STONE MINES INCLUDED IN MANUFACTURES | | | | | |
| United States ----- | 44 | 3.2 | 24.9 | 34.8 | 424.0 |
| Alabama ----- | 1 | (D) | (D) | (D) | (D) |
| Georgia ----- | 4 | .2 | 1.5 | 2.0 | 25.5 |
| Indiana ----- | 5 | (D) | (D) | (D) | (D) |
| Minnesota ----- | 3 | (D) | (D) | (D) | (D) |
| North Carolina ----- | 2 | (D) | (D) | (D) | (D) |
| Ohio ----- | 2 | (D) | (D) | (D) | (D) |
| Pennsylvania ----- | 3 | (D) | (D) | (D) | (D) |
| South Dakota ----- | 1 | (D) | (D) | (D) | (D) |
| Texas ----- | 2 | (D) | (D) | (D) | (D) |
| Vermont ----- | 11 | .6 | 4.6 | 10.8 | 25.4 |
| Wisconsin ----- | 2 | (D) | (D) | (D) | (D) |
| CRUSHED AND BROKEN LIMESTONE MINES INCLUDED IN MANUFACTURES | | | | | |
| United States ----- | 148 | 5.0 | 56.6 | 81.8 | 90 420.6 |
| Alabama ----- | 9 | .3 | 3.2 | 5.8 | 5 427.5 |
| Arizona ----- | 4 | .1 | 1.7 | 1.7 | 2 357.8 |
| Arkansas ----- | 3 | .1 | .7 | .7 | 2 029.4 |
| California ----- | 13 | .5 | 6.6 | 7.5 | 10 550.4 |
| Colorado ----- | 3 | (D) | (D) | (D) | (D) |
| Illinois ----- | 3 | .1 | 1.0 | 1.6 | 1 227.5 |
| Indiana ----- | 4 | .1 | 1.3 | 3.3 | 2 306.8 |
| Iowa ----- | 6 | (D) | (D) | (D) | (D) |
| Kansas ----- | 5 | .1 | 1.1 | 1.0 | 2 131.4 |
| Kentucky ----- | 2 | (D) | (D) | (D) | (D) |
| Maryland ----- | 2 | (D) | (D) | (D) | (D) |
| Michigan ----- | 3 | .2 | 2.3 | 2.7 | 3 898.0 |
| Missouri ----- | 8 | .5 | 4.4 | 6.6 | 7 271.1 |
| Nebraska ----- | 2 | (D) | (D) | (D) | (D) |
| Nevada ----- | 2 | (D) | (D) | (D) | (D) |
| New York ----- | 3 | (D) | (D) | (D) | (D) |
| Ohio ----- | 9 | .2 | 2.2 | 5.0 | 3 453.3 |
| Oklahoma ----- | 3 | .2 | 1.1 | 1.7 | 2 086.5 |
| Pennsylvania ----- | 19 | .7 | 9.3 | 13.1 | 9 625.6 |
| South Carolina ----- | 3 | .1 | .8 | 2.2 | 2 461.8 |
| Texas ----- | 13 | .6 | 5.6 | 7.5 | 11 317.1 |
| Utah ----- | 4 | (D) | (D) | (D) | (D) |
| Virginia ----- | 4 | .2 | 1.6 | 2.2 | 1 668.3 |
| CRUSHED AND BROKEN GRANITE AND CRUSHED AND BROKEN STONE, N.E.C. MINES INCLUDED IN MANUFACTURES | | | | | |
| United States ----- | 11 | .2 | 1.8 | 1.9 | 1 831.5 |
| Hawaii ----- | 1 | (D) | (D) | (D) | (D) |

Note: States with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3a. Summary Statistics by Industry for Selected States: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

| Item | Industry 1411, Dimensional Stone— United States | Industry 1422, Crushed and Broken Limestone | | | | | | | | | |
|---|--|--|---------|------------|---------|---------|----------|-------|--------|----------|-------|
| | | United States | Alabama | California | Florida | Georgia | Illinois | Iowa | Kansas | Kentucky | |
| Establishments during year | number.. | 154 | 1 314 | 26 | 26 | 46 | 12 | 107 | 96 | 33 | 85 |
| With 0 to 19 employees | do.. | 132 | 936 | 18 | 18 | 24 | 5 | 80 | 77 | 24 | 49 |
| With 20 to 99 employees | do.. | 21 | 345 | 7 | 7 | 18 | 6 | 24 | 17 | 9 | 34 |
| With 100 employees or more | do.. | 1 | 33 | 1 | 1 | 4 | 1 | 3 | 2 | - | 2 |
| All employees: | | | | | | | | | | | |
| Average for year | 1,000.. | 1.5 | 25.8 | .7 | .7 | 1.6 | .4 | 1.8 | 1.3 | .5 | 1.8 |
| Payroll for year | mil. dol.. | 21.2 | 497.9 | 19.0 | 15.2 | 27.0 | 5.7 | 40.0 | 25.8 | 8.3 | 28.6 |
| Production, development, and exploration workers: | | | | | | | | | | | |
| Average for year | 1,000.. | 1.2 | 19.8 | .4 | .4 | 1.4 | .3 | 1.4 | 1.1 | .4 | 1.4 |
| March | do.. | 1.1 | 17.8 | .4 | .4 | 1.4 | .2 | 1.1 | .9 | .4 | 1.3 |
| May | do.. | 1.3 | 20.8 | .4 | .4 | 1.4 | .3 | 1.5 | 1.2 | .4 | 1.5 |
| August | do.. | 1.3 | 20.9 | .4 | .3 | 1.4 | .3 | 1.6 | 1.1 | .5 | 1.5 |
| November | do.. | 1.2 | 19.8 | .4 | .4 | 1.3 | .2 | 1.5 | 1.1 | .4 | 1.4 |
| Hours | millions.. | 2.1 | 40.0 | .7 | .8 | 2.9 | .5 | 3.0 | 2.1 | .8 | 2.9 |
| January to March | do.. | .5 | 8.3 | .2 | .2 | .7 | .1 | .5 | .4 | .1 | .6 |
| April to June | do.. | .6 | 10.6 | .2 | .2 | .7 | .1 | .8 | .6 | .2 | .8 |
| July to September | do.. | .6 | 11.0 | .2 | .2 | .7 | .1 | .9 | .6 | .2 | .8 |
| October to December | do.. | .5 | 10.1 | .2 | .2 | .7 | .1 | .8 | .6 | .2 | .8 |
| Wages | mil. dol.. | 16.0 | 350.6 | 5.0 | 7.4 | 21.9 | 3.3 | 30.6 | 18.8 | 6.5 | 20.7 |
| Supplemental labor costs not included in payroll | do.. | 4.7 | 105.4 | 1.7 | 3.5 | 5.6 | 1.1 | 8.7 | 5.0 | 2.0 | 6.5 |
| Legally required expenditures, including Social Security contributions | do.. | 2.8 | 53.0 | .7 | 1.9 | 3.2 | .6 | 4.1 | 2.7 | 1.2 | 3.6 |
| Payments for voluntary programs | do.. | 1.9 | 52.5 | 1.0 | 1.6 | 2.3 | .5 | 4.6 | 2.3 | .8 | 2.8 |
| Value added by mining | do.. | 50.2 | 1 228.7 | 26.7 | 34.2 | 91.2 | 14.8 | 110.6 | 68.3 | 22.2 | 76.5 |
| Cost of supplies | do.. | 16.8 | 712.1 | 17.9 | 16.5 | 51.9 | 8.1 | 58.8 | (D) | 7.9 | (D) |
| Supplies used, minerals received, and purchased machinery installed | do.. | 11.0 | 453.1 | 11.6 | 10.4 | 32.8 | 5.0 | 37.6 | 26.3 | 4.6 | 28.8 |
| Resales | do.. | (D) | 15.2 | - | (D) | (D) | (D) | .3 | (D) | (Z) | (Z) |
| Purchased fuels consumed | do.. | 2.3 | 114.0 | 2.4 | 1.5 | 9.0 | .9 | 8.7 | 6.6 | 2.4 | 7.3 |
| Purchased electric energy: | | | | | | | | | | | |
| Quantity | mil. kWh.. | 36.3 | 1 719.4 | 51.5 | 33.4 | 91.3 | 50.7 | 138.9 | 43.5 | 11.7 | 85.9 |
| Cost | mil. dol.. | 2.0 | 85.3 | 3.3 | 2.2 | 5.0 | 1.5 | 8.7 | 2.2 | .7 | 4.5 |
| Electric energy generated less sold | mil. kWh.. | (Z) | 1.6 | - | .2 | - | (Z) | (Z) | 3.3 | .4 | .7 |
| Contract work | mil. dol.. | (D) | 44.6 | .6 | (D) | (D) | (D) | 3.5 | 1.3 | .3 | (D) |
| Cost of purchased communication services | do.. | (Z) | 2.9 | .1 | .1 | .1 | .1 | .2 | .1 | (Z) | .3 |
| Value of shipments and receipts | do.. | 63.8 | 1 756.1 | 40.3 | 45.3 | 131.4 | 21.9 | 153.5 | 96.4 | 27.7 | 108.9 |
| Value of resales | do.. | (D) | 17.1 | - | (D) | (D) | (D) | .5 | (D) | (Z) | (Z) |
| Hours worked by production, development, and exploration workers | millions.. | 2.1 | 40.0 | .7 | .8 | 2.9 | .5 | 3.0 | 2.1 | .8 | 2.9 |
| At mines | do.. | 1.7 | 23.4 | .3 | .2 | 2.3 | .3 | 1.7 | 1.2 | .5 | 1.9 |
| Underground | do.. | - | 1.1 | - | - | - | (Z) | .2 | .2 | (Z) | .2 |
| Open pit | do.. | 1.6 | 18.0 | .2 | .2 | 2.0 | .2 | 1.1 | .9 | .4 | 1.4 |
| Surface, including mine shops and yards | do.. | (Z) | 4.2 | .1 | (Z) | .3 | .1 | .4 | .1 | .1 | .3 |
| At preparation plants | do.. | .2 | 11.3 | .4 | .3 | .5 | .2 | .9 | .8 | .2 | .8 |
| Hours worked, n.s.k. | do.. | .3 | 5.3 | .1 | .3 | .1 | (Z) | .4 | .2 | (Z) | .2 |
| Hours worked on exploration and development (included above) | do.. | (Z) | .4 | (Z) | (Z) | - | - | (Z) | (Z) | (Z) | (Z) |
| Gross book value of depreciable assets (usually original cost) at beginning of year | mil. dol.. | 48.9 | 2 309.3 | 57.7 | 60.9 | 158.7 | 27.4 | 172.8 | 101.6 | 48.2 | 164.1 |
| Buildings and other structures, except land | do.. | 4.0 | 151.5 | 1.5 | 3.8 | 8.3 | 1.8 | 7.5 | 7.9 | 2.0 | 14.3 |
| Machinery and equipment | do.. | 28.5 | 1 991.9 | 54.2 | 52.5 | 125.5 | 25.4 | 150.2 | 86.8 | 42.6 | 139.7 |
| Mineral exploration and development | do.. | 4.5 | 15.2 | (Z) | 2.6 | 1.1 | (Z) | 2.0 | .4 | .5 | 1.5 |
| Mineral land and rights | do.. | 11.8 | 150.8 | 2.0 | 2.0 | 23.9 | .2 | 13.2 | 6.5 | 3.0 | 8.6 |
| Capital expenditures during year (except land and mineral rights) | do.. | 3.3 | 184.7 | 4.3 | 5.4 | 11.7 | .9 | 15.9 | (D) | 2.4 | (D) |
| New capital expenditures during year | do.. | 1.9 | 139.7 | 3.7 | 3.9 | 9.8 | .9 | 7.8 | (D) | 1.9 | (D) |
| Buildings and other structures, except land | do.. | .1 | 14.2 | (Z) | 1.0 | .5 | (Z) | .1 | (D) | .1 | (D) |
| Machinery and equipment | do.. | 1.8 | 125.5 | 3.6 | 2.9 | 9.4 | .8 | 7.6 | (D) | 1.8 | (D) |
| Used capital expenditures during year | do.. | 1.1 | 39.7 | .7 | .2 | 1.7 | (Z) | 7.2 | (D) | .1 | (D) |
| Buildings and other structures, except land | do.. | (Z) | 2.4 | - | - | (Z) | (Z) | .1 | (Z) | - | (D) |
| Machinery and equipment | do.. | 1.1 | 37.3 | .7 | .2 | 1.6 | (Z) | 7.1 | (D) | .1 | (D) |
| Mineral exploration and development | do.. | .3 | 5.3 | (Z) | 1.3 | .1 | (Z) | 1.0 | (D) | .4 | (D) |
| Capitalized mineral land and rights | do.. | .5 | 12.1 | .3 | .1 | 1.4 | (Z) | .5 | (D) | .8 | (D) |
| Deductions from depreciable assets during year | do.. | 3.6 | 134.7 | 3.2 | 3.9 | 10.3 | .7 | 9.5 | (D) | 6.3 | (D) |
| Buildings and other structures, except land | do.. | .2 | 8.3 | (Z) | (Z) | .2 | (Z) | .2 | (D) | .2 | (D) |
| Machinery and equipment | do.. | 2.7 | 113.7 | 3.1 | 3.6 | 9.5 | .7 | 9.1 | (D) | 4.3 | (D) |
| Mineral exploration and development | do.. | .2 | 3.6 | (Z) | .3 | .2 | (Z) | (Z) | (D) | .4 | (D) |
| Mineral land and rights | do.. | .6 | 9.1 | (Z) | .1 | .4 | (Z) | .1 | (D) | 1.4 | (D) |
| Depreciation and depletion charges for year | do.. | 3.6 | 193.9 | 4.9 | 5.5 | 17.0 | 2.8 | 15.7 | 7.8 | 4.9 | 14.3 |
| Buildings and other structures, except land | do.. | .2 | 10.0 | .1 | .2 | .5 | .1 | .4 | .4 | .1 | 1.6 |
| Machinery and equipment | do.. | 2.7 | 172.8 | 4.7 | 4.6 | 15.0 | 2.7 | 12.6 | 7.2 | 4.6 | 11.8 |
| Mineral exploration and development | do.. | .2 | 1.8 | (Z) | .6 | .1 | (Z) | .3 | (Z) | (Z) | .2 |
| Mineral land and rights | do.. | .6 | 9.4 | .1 | .1 | 1.5 | (Z) | 2.5 | .2 | .1 | .7 |
| Gross book value of depreciable assets at end of year | do.. | 49.0 | 2 371.4 | 59.1 | 62.5 | 161.4 | 27.6 | 179.7 | 106.6 | 45.1 | 165.9 |
| Buildings and other structures, except land | do.. | 3.9 | 159.8 | 1.5 | 4.8 | 8.5 | 1.8 | 7.5 | 8.2 | 1.9 | 15.8 |
| Machinery and equipment | do.. | 28.8 | 2 040.9 | 55.4 | 52.1 | 127.0 | 25.5 | 155.8 | 91.6 | 40.3 | 140.2 |
| Mineral exploration and development | do.. | 4.6 | 17.0 | (Z) | 3.6 | 1.1 | (Z) | 2.9 | .4 | .5 | 1.5 |
| Mineral land and rights | do.. | 11.8 | 153.8 | 2.2 | 2.0 | 24.8 | .2 | 13.5 | 6.4 | 2.4 | 8.4 |
| Rental payments during year | do.. | .1 | 14.5 | .2 | .3 | .7 | (Z) | .3 | 1.2 | .3 | .3 |
| Buildings and other structures, except land | do.. | (Z) | .4 | (Z) | (Z) | .1 | - | (Z) | .1 | (Z) | (Z) |
| Machinery and equipment | do.. | .1 | 14.0 | .2 | .3 | .6 | (Z) | .2 | 1.2 | .3 | .2 |
| Lease rents | do.. | .3 | 9.4 | .1 | .4 | .3 | .4 | .7 | .7 | .1 | .6 |
| Expensed mineral exploration, development, land, and rights | do.. | .5 | 35.5 | .6 | 1.6 | 2.3 | .6 | 1.2 | 2.4 | (Z) | 7.7 |
| Mineral exploration and development | do.. | .4 | 23.6 | (Z) | 1.2 | .1 | (Z) | 1.0 | 1.9 | (Z) | 7.1 |
| Mineral land and rights | do.. | .1 | 11.9 | .6 | .4 | 2.2 | .5 | .3 | .5 | (Z) | .6 |

Table 3a. Summary Statistics by Industry for Selected States: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

| Item | Industry 1422, Crushed and Broken Limestone—Con. | | | | | | | | | | |
|--|---|----------|----------|----------------|-------|----------|--------------|-------|----------|---------------|-----------|
| | Maryland | Missouri | New York | North Carolina | Ohio | Oklahoma | Pennsylvania | Texas | Virginia | West Virginia | Wisconsin |
| Establishments during year ----- number.. | 14 | 150 | 50 | 12 | 90 | 38 | 102 | 40 | 46 | 21 | 50 |
| With 0 to 19 employees ----- do.. | 7 | 125 | 41 | 8 | 68 | 24 | 69 | 20 | 29 | 11 | 41 |
| With 20 to 99 employees ----- do.. | 7 | 25 | 7 | 4 | 20 | 12 | 30 | 16 | 16 | 9 | 9 |
| With 100 employees or more ----- do.. | — | — | 2 | — | 2 | 2 | 3 | 4 | 1 | 1 | — |
| All employees: | | | | | | | | | | | |
| Average for year ----- 1,000.. | .4 | 1.8 | 1.0 | .3 | 1.6 | 1.1 | 2.3 | 1.4 | 1.0 | .5 | .6 |
| Payroll for year ----- mil. dol.. | 7.0 | 31.5 | 24.0 | 4.0 | 33.5 | 21.6 | 45.6 | 24.4 | 14.5 | 8.0 | 12.7 |
| Production, development, and exploration workers: | | | | | | | | | | | |
| Average for year ----- 1,000.. | .3 | 1.5 | .7 | .2 | 1.1 | .9 | 1.6 | 1.2 | .8 | .4 | .5 |
| March ----- do.. | .2 | 1.3 | .6 | .2 | .9 | .9 | 1.4 | 1.2 | .8 | .3 | .4 |
| May ----- do.. | .3 | 1.5 | .8 | .2 | 1.1 | .9 | 1.7 | 1.2 | .8 | .4 | .5 |
| August ----- do.. | .4 | 1.5 | .9 | .2 | 1.2 | .9 | 1.6 | 1.2 | .8 | .4 | .6 |
| November ----- do.. | .4 | 1.5 | .7 | .2 | 1.1 | .9 | 1.5 | 1.2 | .8 | .4 | .5 |
| Hours ----- millions.. | .7 | 2.7 | 1.5 | .3 | 2.1 | 2.0 | 3.1 | 2.9 | 1.5 | .8 | 1.0 |
| January to March ----- do.. | .1 | .6 | .2 | .1 | .4 | .5 | .6 | .7 | .3 | .2 | .2 |
| April to June ----- do.. | .2 | .7 | .4 | .1 | .6 | .5 | .8 | .8 | .4 | .2 | .3 |
| July to September ----- do.. | .2 | .7 | .5 | .1 | .6 | .5 | .9 | .7 | .4 | .2 | .3 |
| October to December ----- do.. | .2 | .7 | .4 | .1 | .5 | .5 | .7 | .8 | .4 | .2 | .3 |
| Wages ----- mil. dol.. | 6.0 | 24.0 | 17.6 | 2.6 | 20.4 | 16.1 | 29.8 | 20.7 | 10.2 | 5.9 | 9.8 |
| Supplemental labor costs not included in payroll ----- do.. | 1.6 | 6.3 | 4.6 | .7 | 6.9 | 3.1 | 9.1 | 4.8 | 2.6 | 1.9 | 3.0 |
| Legally required expenditures, including Social Security contributions ----- do.. | .7 | 3.6 | 2.5 | .3 | 3.6 | 1.7 | 4.8 | 2.5 | 1.4 | 1.1 | 1.6 |
| Payments for voluntary programs ----- do.. | .9 | 2.7 | 2.1 | .3 | 3.3 | 1.4 | 4.3 | 2.2 | 1.3 | .8 | 1.4 |
| Value added by mining ----- do.. | 39.0 | 66.4 | 53.9 | 12.3 | 62.7 | 54.8 | 105.3 | 80.0 | 35.2 | 17.9 | 33.4 |
| Cost of supplies ----- do.. | (D) | 40.0 | 29.6 | 6.7 | 32.6 | (D) | 60.4 | 51.3 | 19.5 | 15.6 | 18.6 |
| Supplies used, minerals received, and purchased machinery installed ----- do.. | 5.8 | 24.7 | 18.1 | 4.6 | 18.6 | 28.8 | 35.8 | 36.2 | 11.8 | 9.9 | 11.7 |
| Resales ----- do.. | (D) | 1.1 | (D) | — | (Z) | — | (D) | (D) | (Z) | (Z) | 1.0 |
| Purchased fuels consumed ----- do.. | 1.8 | 7.1 | 4.3 | .9 | 6.6 | 5.4 | 10.0 | 7.6 | 4.1 | 3.0 | 3.4 |
| Purchased electric energy: | | | | | | | | | | | |
| Quantity ----- mil. kWh.. | 26.4 | 65.0 | 72.8 | 15.7 | 109.1 | 50.4 | 210.2 | 105.7 | 56.0 | 26.8 | 26.2 |
| Cost ----- mil. dol.. | 1.6 | 3.3 | 4.6 | .9 | 5.7 | 2.5 | 8.3 | 5.9 | 3.1 | 1.4 | 1.6 |
| Electric energy generated less sold ----- mil. kWh.. | (D) | .1 | (D) | — | — | — | (Z) | — | (Z) | — | (D) |
| Contract work ----- mil. dol.. | 1.3 | 3.8 | (D) | .2 | 1.7 | (D) | (D) | (D) | .5 | 1.3 | .9 |
| Cost of purchased communication services ----- do.. | (Z) | .1 | .1 | (Z) | .1 | .1 | .3 | .2 | .1 | .1 | .1 |
| Value of shipments and receipts ----- do.. | 42.6 | 97.5 | 79.8 | 18.1 | 81.5 | 88.2 | 148.1 | 115.7 | 48.5 | 31.6 | 48.2 |
| Value of resales ----- do.. | (D) | 1.6 | (D) | — | (Z) | — | (D) | (D) | (Z) | (Z) | 1.1 |
| Hours worked by production, development, and exploration workers ----- millions.. | .7 | 2.7 | 1.5 | .3 | 2.1 | 2.0 | 3.1 | 2.9 | 1.5 | .8 | 1.0 |
| At mines ----- do.. | .6 | 1.5 | .9 | .1 | 1.3 | .9 | 1.8 | 1.4 | .8 | .5 | .5 |
| Underground ----- do.. | — | .1 | — | — | (Z) | — | .1 | (Z) | — | .1 | — |
| Open pit ----- do.. | .6 | 1.3 | .7 | .1 | .9 | .8 | 1.5 | .9 | .7 | .4 | .5 |
| Surface, including mine shops and yards ----- do.. | (Z) | .1 | .2 | (Z) | .4 | .1 | .2 | .4 | .1 | (Z) | .1 |
| At preparation plants ----- do.. | .1 | .4 | .5 | .1 | .5 | 1.0 | 1.1 | .9 | .5 | .2 | .2 |
| Hours worked, n.s.k. ----- do.. | (Z) | .8 | .1 | .1 | .3 | .1 | .3 | .6 | .2 | .1 | .3 |
| Hours worked on exploration and development (included above) ----- do.. | (Z) | (Z) | — | — | (Z) | .2 | (Z) | — | — | — | (Z) |
| Gross book value of depreciable assets (usually original cost) at beginning of year ----- mil. dol.. | 44.5 | 135.0 | 88.1 | 23.1 | 180.2 | 75.7 | 153.7 | 129.5 | 64.7 | 41.0 | 58.3 |
| Buildings and other structures, except land ----- do.. | 3.0 | 7.7 | 5.6 | 1.0 | 9.2 | 2.5 | 12.7 | 3.1 | 2.9 | 3.5 | 4.1 |
| Machinery and equipment ----- do.. | 38.2 | 120.2 | 77.2 | 20.0 | 153.5 | 68.9 | 126.3 | 121.3 | 59.4 | 36.5 | 46.1 |
| Mineral exploration and development ----- do.. | (Z) | .7 | .2 | .1 | 1.9 | .1 | .8 | .3 | .2 | .1 | .2 |
| Mineral land and rights ----- do.. | 3.3 | 6.3 | 5.1 | 2.1 | 15.6 | 4.3 | 14.0 | 4.8 | 2.3 | .8 | 7.9 |
| Capital expenditures during year (except land and mineral rights) ----- do.. | (D) | 8.9 | 3.6 | .9 | 13.9 | (D) | 17.5 | 15.6 | 6.2 | 2.0 | 3.9 |
| New capital expenditures during year ----- do.. | (D) | 6.0 | 2.4 | .6 | 12.5 | (D) | 12.9 | 13.3 | 4.2 | 1.6 | 2.4 |
| Buildings and other structures, except land ----- do.. | (D) | .5 | .1 | (Z) | 5.4 | .3 | 1.2 | .3 | .3 | .1 | .1 |
| Machinery and equipment ----- do.. | (D) | 5.6 | 2.2 | .6 | 7.1 | (D) | 11.8 | 13.0 | 3.9 | 1.5 | 2.3 |
| Used capital expenditures during year ----- do.. | (D) | 2.8 | 1.3 | .2 | .8 | (D) | 4.5 | 2.3 | 2.0 | .3 | 1.4 |
| Buildings and other structures, except land ----- do.. | (Z) | .1 | (Z) | — | (Z) | (Z) | 1.0 | .7 | .1 | — | — |
| Machinery and equipment ----- do.. | (D) | 2.7 | 1.3 | .2 | .8 | (D) | 3.4 | 1.5 | 1.8 | .3 | 1.4 |
| Mineral exploration and development ----- do.. | — | .1 | (Z) | .1 | .5 | (Z) | .1 | (Z) | (Z) | (Z) | .1 |
| Capitalized mineral land and rights ----- do.. | (Z) | .2 | (Z) | .1 | 1.7 | (Z) | 1.7 | .1 | .7 | (Z) | .4 |
| Deductions from depreciable assets during year ----- do.. | (D) | 8.2 | 2.0 | .8 | 18.8 | (D) | 8.0 | 2.6 | 2.2 | 2.9 | 3.3 |
| Buildings and other structures, except land ----- do.. | (D) | .2 | .1 | (Z) | 4.9 | (Z) | .6 | (Z) | .1 | (Z) | .1 |
| Machinery and equipment ----- do.. | (D) | 7.5 | 1.8 | .6 | 11.7 | (D) | 7.0 | 2.4 | 2.1 | 2.8 | 3.0 |
| Mineral exploration and development ----- do.. | — | .1 | (Z) | .1 | .6 | (Z) | .2 | (Z) | (Z) | (Z) | .1 |
| Mineral land and rights ----- do.. | (Z) | .4 | .1 | .2 | 1.6 | (Z) | .3 | .2 | (Z) | (Z) | .2 |
| Depreciation and depletion charges for year ----- do.. | 2.6 | 11.7 | 5.4 | 1.8 | 13.2 | 8.4 | 13.8 | 11.7 | 7.6 | 3.1 | 4.8 |
| Buildings and other structures, except land ----- do.. | .1 | .5 | .3 | .1 | .5 | .1 | 1.1 | .2 | .8 | .2 | .2 |
| Machinery and equipment ----- do.. | 2.3 | 10.8 | 4.8 | 1.7 | 11.8 | 8.0 | 12.2 | 11.2 | 6.2 | 2.9 | 4.3 |
| Mineral exploration and development ----- do.. | (Z) | .1 | (Z) | (Z) | .1 | .1 | .1 | (Z) | (Z) | (Z) | (Z) |
| Mineral land and rights ----- do.. | .1 | .3 | .3 | .1 | .7 | .2 | .4 | .2 | .7 | (Z) | .3 |
| Gross book value of depreciable assets at end of year ----- do.. | 48.7 | 135.9 | 89.8 | 23.3 | 177.0 | 81.6 | 164.9 | 142.6 | 69.4 | 40.1 | 59.4 |
| Buildings and other structures, except land ----- do.. | 3.2 | 8.1 | 5.7 | 1.0 | 9.7 | 2.8 | 14.3 | 4.1 | 3.3 | 3.6 | 4.1 |
| Machinery and equipment ----- do.. | 42.2 | 120.9 | 78.8 | 20.3 | 149.8 | 74.5 | 134.5 | 133.4 | 63.0 | 35.6 | 46.8 |
| Mineral exploration and development ----- do.. | (Z) | .7 | .2 | .1 | 1.9 | .1 | .8 | .3 | .2 | .1 | .2 |
| Mineral land and rights ----- do.. | 3.3 | 6.1 | 5.1 | 2.0 | 15.7 | 4.3 | 15.3 | 4.8 | 2.9 | .8 | 8.1 |
| Rental payments during year ----- do.. | .1 | .4 | 1.7 | (Z) | .6 | .9 | 3.8 | 1.9 | .1 | .1 | .1 |
| Buildings and other structures, except land ----- do.. | — | (Z) | (Z) | (Z) | — | — | (Z) | (Z) | (Z) | (Z) | — |
| Machinery and equipment ----- do.. | .1 | .4 | 1.7 | (Z) | .6 | .9 | 3.8 | 1.9 | .1 | .1 | .1 |
| Lease rents ----- do.. | — | 1.1 | .1 | (Z) | .1 | .9 | .5 | .7 | .4 | (Z) | .3 |
| Expensed mineral exploration, development, land, and rights ----- do.. | (Z) | 4.7 | .2 | .2 | 1.0 | 3.3 | 4.8 | 1.1 | .2 | (Z) | .9 |
| Mineral exploration and development ----- do.. | (Z) | 4.4 | .2 | .1 | .1 | 2.5 | 4.0 | .6 | (Z) | (Z) | (Z) |
| Mineral land and rights ----- do.. | (Z) | .3 | (Z) | .1 | .9 | .9 | .8 | .5 | .2 | (Z) | .9 |

Table 3a. Summary Statistics by Industry for Selected States: 1982—Con.

(For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix)

| Item | Industry 1423, Crushed and Broken Granite | | | | | Industry 1429, Crushed and Broken Stone | | | | | | |
|--|--|------------|---------|----------------|----------|--|---------|------------|----------|----------------|--------|----------|
| | United States | California | Georgia | North Carolina | Virginia | United States | Georgia | New Jersey | New York | North Carolina | Oregon | Virginia |
| Establishments during year number | 189 | 18 | 39 | 47 | 23 | 429 | 10 | 16 | 16 | 17 | 41 | 23 |
| With 0 to 19 employees do | 99 | 13 | 18 | 20 | 6 | 330 | 4 | 9 | 9 | 11 | 37 | 13 |
| With 20 to 99 employees do | 88 | 5 | 21 | 27 | 17 | 94 | 5 | 7 | 7 | 6 | 4 | 10 |
| With 100 employees or more do | 2 | - | - | - | - | 5 | 1 | - | - | - | - | - |
| All employees: | | | | | | | | | | | | |
| Average for year 1,000 | 4.5 | .3 | 1.0 | 1.1 | .7 | 6.5 | .4 | .4 | .3 | .4 | .3 | .4 |
| Payroll for year mil. dol. | 76.7 | 7.6 | 17.7 | 19.6 | 12.0 | 126.4 | 5.6 | 9.3 | 7.9 | 7.2 | 6.6 | 5.9 |
| Production, development, and exploration workers: | | | | | | | | | | | | |
| Average for year 1,000 | 3.7 | .3 | .8 | .8 | .6 | 4.8 | .3 | .3 | .2 | .2 | .2 | .3 |
| March do | 3.4 | .2 | .8 | .8 | .6 | 4.4 | .3 | .3 | .2 | .2 | .2 | .3 |
| May do | 3.7 | .3 | .8 | .8 | .6 | 4.8 | .3 | .3 | .3 | .2 | .2 | .3 |
| August do | 3.8 | .3 | .8 | .9 | .6 | 5.0 | .3 | .3 | .3 | .2 | .2 | .3 |
| November do | 3.7 | .3 | .8 | .8 | .5 | 4.7 | .3 | .3 | .2 | .2 | .2 | .3 |
| Hours millions | 7.6 | .5 | 1.8 | 2.0 | 1.2 | 9.6 | .6 | .7 | .5 | .5 | .4 | .6 |
| January to March do | 1.5 | .1 | .4 | .4 | .2 | 1.9 | .1 | .1 | .1 | .1 | .1 | .1 |
| April to June do | 2.0 | .1 | .5 | .5 | .3 | 2.5 | .1 | .2 | .1 | .1 | .1 | .2 |
| July to September do | 2.1 | .1 | .5 | .6 | .3 | 2.7 | .2 | .2 | .2 | .1 | .1 | .2 |
| October to December do | 2.0 | .1 | .5 | .5 | .3 | 2.4 | .1 | .2 | .1 | .1 | .1 | .1 |
| Wages mil. dol. | 56.7 | 6.4 | 12.4 | 12.8 | 8.7 | 86.4 | 3.8 | 7.4 | 4.9 | 3.0 | 4.7 | 4.7 |
| Supplemental labor costs not included in payroll do | 16.2 | 2.4 | 3.2 | 3.3 | 2.3 | 24.3 | 1.3 | 1.8 | 1.3 | .8 | 1.4 | 1.1 |
| Legally required expenditures, including Social Security contributions do | 8.2 | 1.0 | 1.5 | 1.7 | 1.2 | 12.5 | .5 | 1.0 | .8 | .4 | .9 | .6 |
| Payments for voluntary programs do | 8.0 | 1.4 | 1.7 | 1.6 | 1.1 | 11.8 | .8 | .8 | .5 | .3 | .5 | .5 |
| Value added by mining do | 259.0 | 21.1 | 69.4 | 63.9 | 41.2 | 299.6 | 19.1 | 30.5 | 17.8 | 11.8 | 17.5 | 11.6 |
| Cost of supplies do | 164.2 | (D) | 40.4 | 38.7 | 23.6 | 177.1 | 7.5 | (D) | 7.8 | 6.9 | 6.3 | 14.2 |
| Supplies used, minerals received, and purchased machinery installed do | 117.9 | 10.6 | 26.0 | 29.8 | 16.8 | 113.5 | 3.3 | 11.3 | 4.0 | 3.9 | 4.0 | 9.6 |
| Resales do | (D) | (Z) | (D) | - | (Z) | 1.8 | - | (D) | (Z) | - | (Z) | - |
| Purchased fuels consumed do | 17.5 | 1.2 | 4.4 | 4.1 | 2.5 | 25.6 | 1.8 | 2.0 | 1.5 | 1.7 | 1.2 | 1.7 |
| Purchased electric energy: | | | | | | | | | | | | |
| Quantity mil. kWh. | 282.5 | 33.5 | 72.9 | 59.4 | 35.4 | 392.2 | 34.4 | 28.7 | 27.2 | 14.4 | 13.2 | 17.9 |
| Cost mil. dol. | 17.5 | 2.0 | 5.1 | 3.5 | 2.5 | 21.1 | 1.6 | 1.6 | 1.6 | .7 | .7 | 1.3 |
| Electric energy generated less sold mil. kWh. | - | - | - | - | - | 1.7 | - | - | (D) | - | - | - |
| Contract work mil. dol. | (D) | (D) | (D) | 1.4 | 1.8 | 15.2 | .7 | 3.3 | .6 | .6 | .4 | 1.6 |
| Cost of purchased communication services do | .7 | (Z) | .2 | .2 | .2 | .6 | .1 | (Z) | (Z) | (Z) | .1 | .1 |
| Value of shipments and receipts do | 384.2 | 31.9 | 103.3 | 91.7 | 59.6 | 431.2 | 24.6 | 44.8 | 22.2 | 17.6 | 22.2 | 20.9 |
| Value of resales do | (D) | (Z) | (D) | - | (Z) | 1.9 | - | (D) | (Z) | - | (Z) | - |
| Hours worked by production, development, and exploration workers millions | 7.6 | .5 | 1.8 | 2.0 | 1.2 | 9.6 | .6 | .7 | .5 | .5 | .4 | .6 |
| At mines do | 4.7 | .3 | 1.0 | 1.1 | .9 | 5.6 | .2 | .6 | .2 | .2 | .2 | .3 |
| Underground do | - | - | - | - | - | .2 | (Z) | - | - | - | - | - |
| Open pit do | 3.8 | .2 | .8 | .9 | .7 | 4.3 | .1 | .5 | .2 | .2 | .1 | .2 |
| Surface, including mine shops and yards do | .8 | .1 | .2 | .2 | .2 | 1.0 | - | (Z) | (Z) | .1 | (Z) | .1 |
| At preparation plants do | 2.5 | (Z) | .8 | .8 | .3 | 2.6 | .4 | .1 | .3 | .2 | (Z) | .2 |
| Hours worked, n.s.k. do | .4 | .1 | .1 | .1 | (Z) | 1.4 | (Z) | (Z) | (Z) | (Z) | .2 | .1 |
| Hours worked on exploration and development (included above) do | (Z) | (Z) | - | - | - | (Z) | - | - | - | (Z) | (Z) | - |
| Gross book value of depreciable assets (usually original cost) at beginning of year mil. dol. | 449.4 | 40.7 | 109.5 | 111.3 | 84.5 | 472.9 | 17.3 | 43.0 | 24.6 | 20.2 | 26.7 | 29.7 |
| Buildings and other structures, except land do | 26.7 | 4.6 | 2.5 | 2.8 | 3.9 | 55.9 | 1.4 | 5.1 | 1.2 | 2.0 | 2.1 | 2.0 |
| Machinery and equipment do | 389.4 | 32.2 | 94.6 | 100.9 | 78.0 | 372.4 | 14.5 | 34.1 | 20.5 | 16.5 | 22.3 | 25.1 |
| Mineral exploration and development do | .8 | .5 | (Z) | .1 | (Z) | 9.3 | (Z) | .7 | .1 | .2 | .4 | .2 |
| Mineral land and rights do | 32.5 | 3.4 | 12.4 | 7.5 | 2.6 | 35.3 | 1.4 | 3.2 | 2.8 | 1.4 | 1.9 | 2.4 |
| Capital expenditures during year (except land and mineral rights) do | 39.1 | (D) | 6.4 | 10.9 | 5.2 | 45.5 | 1.9 | (D) | 3.4 | 1.2 | 1.5 | 4.8 |
| New capital expenditures during year do | 31.9 | (D) | 5.5 | 6.7 | 4.5 | 36.4 | 1.9 | (D) | 3.3 | 1.0 | 1.2 | 4.6 |
| Buildings and other structures, except land do | 1.2 | (D) | .1 | .2 | .2 | 4.1 | (Z) | (D) | .7 | .1 | .2 | .4 |
| Machinery and equipment do | 30.7 | (D) | 5.4 | 6.6 | 4.4 | 32.3 | 1.9 | (D) | 2.6 | .9 | 1.0 | 4.1 |
| Used capital expenditures during year do | 6.8 | (D) | .9 | 4.0 | .6 | 8.4 | (Z) | (D) | .1 | .1 | .3 | .1 |
| Buildings and other structures, except land do | .1 | (D) | - | (Z) | - | .4 | (Z) | (D) | (Z) | (Z) | (Z) | (Z) |
| Machinery and equipment do | 6.6 | (D) | .9 | 3.9 | .6 | 8.0 | (Z) | (D) | .1 | .1 | .2 | .1 |
| Mineral exploration and development do | .4 | (D) | (Z) | .2 | (Z) | .8 | (Z) | (D) | (Z) | (Z) | .1 | .1 |
| Capitalized mineral land and rights do | 5.5 | (D) | .6 | 2.0 | .7 | 1.5 | (Z) | (D) | (Z) | (Z) | .1 | (Z) |
| Deductions from depreciable assets during year do | 21.8 | (D) | 6.3 | 6.2 | 2.7 | 31.1 | 1.2 | (D) | .4 | .9 | 2.7 | 1.6 |
| Buildings and other structures, except land do | .4 | (D) | .1 | .1 | .1 | 1.0 | (Z) | (D) | (Z) | (Z) | .2 | .1 |
| Machinery and equipment do | 19.6 | (D) | 6.0 | 5.1 | 2.2 | 28.1 | 1.2 | (D) | .4 | .8 | 2.3 | 1.5 |
| Mineral exploration and development do | .3 | (D) | (Z) | .2 | (Z) | .5 | (Z) | (D) | (Z) | (Z) | .1 | (Z) |
| Mineral land and rights do | 1.4 | (D) | .1 | .8 | .4 | 1.4 | (Z) | (D) | (Z) | .1 | .2 | .1 |
| Depreciation and depletion charges for year do | 41.6 | 2.9 | 11.5 | 10.5 | 6.7 | 41.4 | 1.8 | 3.5 | 1.6 | 1.5 | 2.4 | 2.2 |
| Buildings and other structures, except land do | 2.6 | .3 | .2 | .2 | .2 | 4.4 | .1 | .3 | .1 | .1 | .2 | .1 |
| Machinery and equipment do | 37.7 | 2.5 | 10.8 | 10.0 | 6.4 | 34.8 | 1.6 | 2.8 | 1.3 | 1.3 | 2.1 | 2.0 |
| Mineral exploration and development do | .1 | (Z) | (Z) | (Z) | (Z) | .7 | (Z) | .1 | (Z) | (Z) | (Z) | (Z) |
| Mineral land and rights do | 1.3 | .2 | .5 | .3 | .1 | 1.5 | (Z) | .3 | .1 | (Z) | .1 | .1 |
| Gross book value of depreciable assets at end of year do | 472.2 | 42.9 | 110.2 | 118.0 | 87.7 | 488.8 | 18.0 | 44.3 | 27.6 | 20.5 | 25.7 | 32.9 |
| Buildings and other structures, except land do | 27.6 | 4.7 | 2.5 | 3.0 | 4.0 | 59.3 | 1.4 | 5.3 | 1.9 | 2.1 | 2.2 | 2.3 |
| Machinery and equipment do | 407.2 | 32.2 | 94.8 | 106.3 | 80.8 | 384.5 | 15.2 | 35.1 | 22.8 | 16.8 | 21.3 | 27.9 |
| Mineral exploration and development do | .9 | .6 | (Z) | .1 | (Z) | 9.6 | (Z) | .7 | .1 | .2 | .4 | .3 |
| Mineral land and rights do | 36.7 | 5.5 | 12.9 | 8.7 | 2.9 | 35.4 | 1.4 | 3.2 | 2.8 | 1.4 | 1.8 | 2.4 |
| Rental payments during year do | 2.1 | (Z) | .2 | (Z) | .5 | 3.9 | .1 | (Z) | (Z) | (Z) | .2 | .3 |
| Buildings and other structures, except land do | (Z) | - | - | - | - | .1 | - | (Z) | - | - | (Z) | - |
| Machinery and equipment do | 2.1 | (Z) | .2 | (Z) | .5 | 3.8 | .1 | (Z) | (Z) | (Z) | .2 | .3 |
| Lease rents do | 1.6 | (Z) | .8 | .2 | .3 | 1.8 | (Z) | - | - | .1 | .1 | (Z) |
| Expensed mineral exploration, development, land, and rights do | 3.7 | .7 | 1.2 | .6 | .8 | 15.3 | - | 1.5 | .5 | - | 1.2 | .1 |
| Mineral exploration and development do | .9 | .4 | .3 | - | - | 13.2 | - | 1.0 | .5 | - | 1.1 | .1 |
| Mineral land and rights do | 2.8 | .3 | .9 | .6 | .8 | 2.1 | - | .5 | (Z) | - | .1 | (Z) |

Table 3b. Summary Statistics by Industry and Type of Operation: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

| Item | Industry 1411, Dimension Stone | | | | Industry 1422, Crushed and Broken Limestone | | | | | |
|--|-----------------------------------|--------------------------|----------------------------|---|--|--------------------------|-------------------------------|------------------|----------|---|
| | All estab- lishments | Producing establishments | | | All estab- lishments | Producing establishments | | | | Combination and other mining methods |
| | | Total | Mines only— open pit | Mines with preparation plants— open pit | | Total | Mines with preparation plants | | | |
| | | | | | | | Total | Under- ground | Open pit | |
| Establishments during year.....number.. | 154 | 149 | 132 | 13 | 1 314 | 1 293 | 1 195 | 41 | 1 142 | 12 |
| With 0 to 19 employees.....do.. | 132 | 128 | 119 | 7 | 936 | 916 | 846 | 19 | 826 | 1 |
| With 20 to 99 employees.....do.. | 21 | 20 | 12 | 6 | 345 | 344 | 318 | 19 | 288 | 11 |
| With 100 employees or more.....do.. | 1 | 1 | 1 | - | 33 | 33 | 31 | 3 | 28 | - |
| All employees: | | | | | | | | | | |
| Average for year.....1,000.. | 1.5 | 1.5 | 1.2 | .2 | 25.8 | 25.6 | 23.7 | 1.2 | 21.9 | .6 |
| Payroll for year.....mil. dol.. | 21.2 | 21.2 | 15.7 | 3.6 | 497.9 | 494.7 | 443.6 | 20.5 | 410.5 | 12.6 |
| Production, development, and exploration workers: | | | | | | | | | | |
| Average for year.....1,000.. | 1.2 | 1.2 | 1.0 | .2 | 19.8 | 19.7 | 19.4 | 1.0 | 17.8 | .5 |
| March.....do.. | 1.1 | 1.1 | .9 | .2 | 17.8 | 17.6 | 17.3 | 1.0 | 15.8 | .5 |
| May.....do.. | 1.3 | 1.2 | 1.0 | .2 | 20.8 | 20.6 | 20.3 | 1.0 | 18.7 | .6 |
| August.....do.. | 1.3 | 1.3 | 1.1 | .2 | 20.9 | 20.7 | 20.4 | 1.0 | 18.9 | .5 |
| November.....do.. | 1.2 | 1.2 | 1.0 | .2 | 19.8 | 19.7 | 19.4 | 1.0 | 17.9 | .5 |
| Hours.....millions.. | 2.1 | 2.1 | 1.7 | .4 | 40.0 | 39.7 | 39.2 | 2.1 | 36.0 | 1.1 |
| January to March.....do.. | .5 | .4 | .4 | .1 | 8.3 | 8.2 | 8.1 | .4 | 7.4 | .3 |
| April to June.....do.. | .6 | .5 | .4 | .1 | 10.6 | 10.5 | 10.4 | .6 | 9.5 | .3 |
| July to September.....do.. | .6 | .5 | .5 | .1 | 11.0 | 10.9 | 10.8 | .5 | 9.9 | .3 |
| October to December.....do.. | .5 | .5 | .4 | .1 | 10.1 | 10.0 | 9.9 | .5 | 9.1 | .3 |
| Wages.....mil. dol.. | 16.0 | 16.0 | 13.2 | 2.7 | 350.6 | 347.9 | 343.4 | 15.8 | 317.0 | 10.5 |
| Supplemental labor costs not included in payroll.....do.. | 4.7 | 4.6 | 3.9 | .7 | 105.4 | 104.8 | 103.5 | 5.7 | 94.9 | 2.9 |
| Legally required expenditures, including Social Security contributions.....do.. | 2.8 | 2.7 | 2.2 | .5 | 53.0 | 52.6 | 52.0 | 2.5 | 48.1 | 1.4 |
| Payments for voluntary programs.....do.. | 1.9 | 1.9 | 1.8 | .1 | 52.5 | 52.2 | 51.5 | 3.2 | 46.8 | 1.5 |
| Value added by mining.....do.. | 50.2 | 50.2 | 43.3 | 7.0 | 1 228.7 | 1 223.3 | 1 205.4 | 56.6 | 1 115.9 | 32.9 |
| Cost of supplies.....do.. | 16.8 | 16.8 | 14.1 | 2.7 | 712.1 | 710.7 | 696.1 | 34.5 | 644.7 | 16.9 |
| Supplies used, minerals received, and purchased machinery installed.....do.. | 11.0 | 11.0 | 9.1 | 1.9 | 453.1 | 452.7 | 441.2 | 23.0 | 408.9 | 9.3 |
| Resales.....do.. | (D) | (D) | (D) | (D) | 15.2 | 15.2 | 15.1 | .5 | 14.5 | (Z) |
| Purchased fuels consumed.....do.. | 2.3 | 2.3 | 1.9 | .4 | 114.0 | 113.7 | 112.2 | 4.5 | 104.6 | 3.1 |
| Purchased electric energy: | | | | | | | | | | |
| Quantity.....mil. kWh.. | 36.3 | 36.3 | 32.9 | 3.5 | 1 719.4 | 1 714.2 | 1 694.0 | 96.3 | 1 559.8 | 37.9 |
| Cost.....mil. dol.. | 2.0 | 2.0 | 1.8 | .2 | 85.3 | 85.0 | 84.0 | 5.0 | 76.6 | 2.4 |
| Electric energy generated less sold.....mil. kWh.. | (Z) | (Z) | - | (Z) | 1.6 | 1.6 | 1.4 | - | 1.4 | - |
| Contract work.....mil. dol.. | (D) | (D) | (D) | (D) | 44.6 | 44.2 | 43.6 | 1.5 | 40.1 | 2.1 |
| Cost of purchased communication services.....do.. | (Z) | (Z) | (Z) | (Z) | 2.9 | 2.9 | 2.9 | .2 | 2.6 | .1 |
| Value of shipments and receipts.....do.. | 63.8 | 63.8 | 54.6 | 9.2 | 1 756.1 | 1 756.1 | 1 725.1 | 82.5 | 1 594.8 | 47.8 |
| Value of resales.....do.. | (D) | (D) | (D) | (D) | 17.1 | 17.1 | 16.9 | .5 | 16.4 | (Z) |
| Hours worked by production, development, and exploration workers.....millions.. | 2.1 | 2.1 | 1.7 | .4 | 40.0 | 39.7 | 39.2 | 2.1 | 36.0 | 1.1 |
| At mines.....do.. | 1.7 | 1.6 | 1.4 | .2 | 23.4 | 23.2 | 23.0 | 1.1 | 21.3 | .7 |
| Underground.....do.. | - | - | - | - | 1.1 | 1.1 | 1.1 | .8 | - | .2 |
| Open pit.....do.. | 1.6 | 1.6 | 1.4 | .2 | 18.0 | 17.8 | 17.7 | - | 17.4 | .3 |
| Surface, including mine shops and yards.....do.. | (Z) | (Z) | (Z) | (Z) | 4.2 | 4.2 | 4.2 | .2 | 3.7 | .2 |
| At preparation plants.....do.. | .2 | .2 | - | .2 | 11.3 | 11.3 | 11.1 | .9 | 9.8 | .4 |
| Hours worked, n.s.k.....do.. | .3 | .3 | .3 | (Z) | 5.3 | 5.3 | 5.1 | .1 | 5.1 | (Z) |
| Hours worked on exploration and development (included above).....do.. | (Z) | (Z) | (Z) | - | .4 | .4 | .4 | (Z) | .4 | - |
| Gross book value of depreciable assets (usually original cost) at beginning of year.....mil. dol.. | 48.9 | 48.9 | 41.9 | 6.9 | 2 309.3 | 2 242.6 | 2 220.1 | 100.2 | 2 071.2 | 48.7 |
| Buildings and other structures, except land.....do.. | 4.0 | 4.0 | 3.1 | .9 | 151.5 | 150.9 | 147.9 | 7.1 | 139.0 | 1.9 |
| Machinery and equipment.....do.. | 28.5 | 28.5 | 23.8 | 4.8 | 1 991.9 | 1 939.8 | 1 921.1 | 87.9 | 1 788.2 | 44.9 |
| Mineral exploration and development.....do.. | 4.5 | 4.5 | 3.9 | .7 | 15.2 | 12.7 | 12.4 | 1.5 | 10.7 | .2 |
| Mineral land and rights.....do.. | 11.8 | 11.8 | 11.2 | .6 | 150.8 | 139.4 | 138.7 | 3.7 | 133.4 | 1.7 |
| Capital expenditures during year (except land and mineral rights).....do.. | 3.3 | 3.3 | 2.8 | .5 | 184.7 | 177.9 | 176.4 | 8.6 | 165.8 | 2.0 |
| New capital expenditures during year.....do.. | 1.9 | 1.9 | 1.8 | .1 | 139.7 | 134.2 | 133.2 | 7.0 | 124.6 | 1.8 |
| Buildings and other structures, except land.....do.. | .1 | .1 | .1 | (Z) | 14.2 | 9.1 | 9.1 | .4 | 8.6 | (Z) |
| Machinery and equipment.....do.. | 1.8 | 1.8 | 1.8 | .1 | 125.5 | 125.1 | 124.1 | 6.6 | 115.9 | 1.8 |
| Used capital expenditures during year.....do.. | 1.1 | 1.1 | .7 | .4 | 39.7 | 39.5 | 39.2 | .6 | 38.4 | .2 |
| Buildings and other structures, except land.....do.. | (Z) | (Z) | (Z) | - | 2.4 | 2.4 | 2.4 | (Z) | 2.4 | - |
| Machinery and equipment.....do.. | 1.1 | 1.1 | .7 | .4 | 37.3 | 37.1 | 36.8 | .6 | 36.1 | .2 |
| Mineral exploration and development.....do.. | .3 | .3 | .3 | - | 5.3 | 4.3 | 4.1 | .9 | 3.2 | (Z) |
| Capitalized mineral land and rights.....do.. | .5 | .5 | .5 | - | 12.1 | 9.9 | 9.5 | .3 | 9.1 | (Z) |
| Deductions from depreciable assets during year.....do.. | 3.6 | 3.6 | 3.6 | .1 | 134.7 | 119.2 | 117.8 | 5.2 | 110.5 | 2.1 |
| Buildings and other structures, except land.....do.. | .2 | .2 | .2 | (Z) | 8.3 | 3.7 | 3.6 | .1 | 3.5 | (Z) |
| Machinery and equipment.....do.. | 2.7 | 2.7 | 2.6 | .1 | 113.7 | 106.5 | 105.4 | 4.7 | 98.6 | 2.1 |
| Mineral exploration and development.....do.. | .2 | .2 | .2 | - | 3.6 | 2.4 | 2.3 | (Z) | 2.3 | (Z) |
| Mineral land and rights.....do.. | .6 | .6 | .5 | (Z) | 9.1 | 6.6 | 6.5 | .4 | 6.0 | (Z) |
| Depreciation and depletion charges for year.....do.. | 3.6 | 3.6 | 3.0 | .6 | 193.9 | 189.4 | 187.0 | 10.4 | 172.2 | 4.3 |
| Buildings and other structures, except land.....do.. | .2 | .2 | .1 | (Z) | 10.0 | 9.8 | 9.6 | .4 | 9.2 | .1 |
| Machinery and equipment.....do.. | 2.7 | 2.7 | 2.1 | .5 | 172.8 | 169.2 | 167.1 | 9.8 | 153.1 | 4.2 |
| Mineral exploration and development.....do.. | .2 | .2 | .2 | (Z) | 1.8 | 1.6 | 1.6 | .2 | 1.4 | (Z) |
| Mineral land and rights.....do.. | .6 | .6 | .5 | (Z) | 9.4 | 8.9 | 8.8 | .2 | 8.6 | .1 |
| Gross book value of depreciable assets at end of year.....do.. | 49.0 | 49.0 | 41.7 | 7.4 | 2 371.4 | 2 311.3 | 2 288.2 | 103.9 | 2 135.7 | 48.6 |
| Buildings and other structures, except land.....do.. | 3.9 | 3.9 | 2.9 | .9 | 159.8 | 158.6 | 155.7 | 7.4 | 146.4 | 1.9 |
| Machinery and equipment.....do.. | 28.8 | 28.8 | 23.6 | 5.2 | 2 040.9 | 1 995.5 | 1 976.6 | 90.5 | 1 841.3 | 44.8 |
| Mineral exploration and development.....do.. | 4.6 | 4.6 | 3.9 | .7 | 17.0 | 14.5 | 14.2 | 2.4 | 11.6 | .2 |
| Mineral land and rights.....do.. | 11.8 | 11.8 | 11.2 | .6 | 153.8 | 142.7 | 141.8 | 3.6 | 136.5 | 1.7 |
| Rental payments during year.....do.. | .1 | .1 | .1 | (Z) | 14.5 | 14.5 | 14.1 | .3 | 13.5 | .3 |
| Buildings and other structures, except land.....do.. | (Z) | (Z) | (Z) | - | .4 | .4 | .4 | (Z) | .4 | (Z) |
| Machinery and equipment.....do.. | .1 | .1 | .1 | (Z) | 14.0 | 14.0 | 13.7 | .3 | 13.1 | .3 |
| Lease rents.....do.. | .3 | (Z) | (Z) | (Z) | 9.4 | 9.4 | 9.4 | .3 | 8.7 | .4 |
| Expensed mineral exploration, development, land, and rights.....do.. | .5 | .5 | .5 | (Z) | 35.5 | 35.5 | 35.4 | 1.5 | 28.6 | 5.2 |
| Mineral exploration and development.....do.. | .4 | .4 | .4 | - | 23.6 | 23.6 | 23.5 | 1.4 | 17.9 | 4.3 |
| Mineral land and rights.....do.. | .1 | .1 | .1 | (Z) | 11.9 | 11.9 | 11.8 | .1 | 10.7 | 1.0 |

Table 3b. Summary Statistics by Industry and Type of Operation: 1982—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

| Item | Industry 1423, Crushed and Broken Granite | | | Industry 1429, Crushed and Broken Stone | | | | |
|---|--|--------------------------|---|--|--------------------------|-------------------------------|------------------|----------|
| | All estab- lishments | Producing establishments | | All estab- lishments | Producing establishments | | | |
| | | Total | Mines with preparation plants— open pit | | Total | Mines with preparation plants | | |
| | | | | | | Total | Under- ground | Open pit |
| Establishments during year ----- number .. | 189 | 186 | 176 | 429 | 415 | 362 | 5 | 354 |
| With 0 to 19 employees ----- do .. | 99 | 96 | 91 | 330 | 316 | 272 | 1 | 269 |
| With 20 to 99 employees ----- do .. | 88 | 88 | 83 | 94 | 94 | 85 | 3 | 81 |
| With 100 employees or more ----- do .. | 2 | 2 | 2 | 5 | 5 | 5 | 1 | 4 |
| All employees: | | | | | | | | |
| Average for year ----- 1,000 .. | 4.5 | 4.5 | 4.2 | 6.5 | 6.4 | 5.7 | .3 | 5.3 |
| Payroll for year ----- mil. dol .. | 76.7 | 76.6 | 68.8 | 126.4 | 125.8 | 106.8 | 4.8 | 100.6 |
| Production, development, and exploration workers: | | | | | | | | |
| Average for year ----- 1,000 .. | 3.7 | 3.7 | 3.6 | 4.8 | 4.7 | 4.6 | .2 | 4.3 |
| March ----- do .. | 3.4 | 3.4 | 3.4 | 4.4 | 4.4 | 4.3 | .2 | 4.0 |
| May ----- do .. | 3.7 | 3.7 | 3.7 | 4.8 | 4.8 | 4.7 | .2 | 4.4 |
| August ----- do .. | 3.8 | 3.8 | 3.8 | 5.0 | 5.0 | 4.9 | .2 | 4.6 |
| November ----- do .. | 3.7 | 3.7 | 3.6 | 4.7 | 4.7 | 4.6 | .2 | 4.3 |
| Hours ----- millions .. | 7.6 | 7.6 | 7.5 | 9.6 | 9.5 | 9.3 | .5 | 8.7 |
| January to March ----- do .. | 1.5 | 1.5 | 1.5 | 1.9 | 1.9 | 1.8 | .1 | 1.7 |
| April to June ----- do .. | 2.0 | 2.0 | 2.0 | 2.5 | 2.5 | 2.4 | .1 | 2.3 |
| July to September ----- do .. | 2.1 | 2.1 | 2.1 | 2.7 | 2.7 | 2.7 | .1 | 2.5 |
| October to December ----- do .. | 2.0 | 2.0 | 1.9 | 2.4 | 2.4 | 2.3 | .1 | 2.2 |
| Wages ----- mil. dol .. | 56.7 | 56.7 | 55.5 | 86.4 | 85.9 | 83.9 | 3.6 | 79.2 |
| Supplemental labor costs not included in payroll ----- do .. | 16.2 | 16.1 | 15.9 | 24.3 | 24.2 | 23.7 | 1.2 | 22.3 |
| Legally required expenditures, including Social Security contributions ----- do .. | 8.2 | 8.2 | 8.0 | 12.5 | 12.4 | 12.1 | .6 | 11.4 |
| Payments for voluntary programs ----- do .. | 8.0 | 7.9 | 7.8 | 11.8 | 11.8 | 11.5 | .6 | 10.9 |
| Value added by mining ----- do .. | 259.0 | 259.0 | 253.4 | 299.6 | 300.2 | 294.4 | 14.3 | 276.2 |
| Cost of supplies ----- do .. | 164.2 | 164.2 | 163.5 | 177.1 | 176.5 | 172.6 | 8.9 | 163.2 |
| Supplies used, minerals received, and purchased machinery installed ----- do .. | 117.9 | 117.9 | 117.2 | 113.5 | 113.4 | 110.9 | 6.3 | 104.5 |
| Resales ----- do .. | (D) | (D) | (D) | 1.8 | 1.8 | 1.8 | .1 | 1.6 |
| Purchased fuels consumed ----- do .. | 17.5 | 17.5 | 17.5 | 25.6 | 25.6 | 24.9 | .9 | 23.7 |
| Purchased electric energy: | | | | | | | | |
| Quantity ----- mil. kWh .. | 282.5 | 282.5 | 279.9 | 392.2 | 392.0 | 383.6 | 34.1 | 348.7 |
| Cost ----- mil. dol .. | 17.5 | 17.5 | 17.4 | 21.1 | 21.1 | 20.6 | 1.5 | 19.0 |
| Electric energy generated less sold ----- mil. kWh .. | - | - | - | 1.7 | 1.7 | 1.7 | - | 1.7 |
| Contract work ----- mil. dol .. | (D) | (D) | (D) | 15.2 | 14.6 | 14.4 | .1 | 14.3 |
| Cost of purchased communication services ----- do .. | .7 | .7 | .7 | .6 | .6 | .6 | (Z) | .6 |
| Value of shipments and receipts ----- do .. | 384.2 | 384.2 | 378.0 | 431.2 | 431.2 | 421.9 | 21.9 | 395.6 |
| Value of resales ----- do .. | (D) | (D) | (D) | 1.9 | 1.9 | 1.9 | .1 | 1.8 |
| Hours worked by production, development, and exploration workers ----- millions .. | 7.6 | 7.6 | 7.5 | 9.6 | 9.5 | 9.3 | .5 | 8.7 |
| At mines ----- do .. | 4.7 | 4.6 | 4.6 | 5.6 | 5.5 | 5.5 | .2 | 5.2 |
| Underground ----- do .. | - | - | - | .2 | .2 | .2 | .2 | - |
| Open pit ----- do .. | 3.8 | 3.7 | 3.7 | 4.3 | 4.3 | 4.3 | - | 4.2 |
| Surface, including mine shops and yards ----- do .. | .8 | .8 | .8 | 1.0 | 1.0 | 1.0 | (Z) | 1.0 |
| At preparation plants ----- do .. | 2.5 | 2.5 | 2.5 | 2.6 | 2.5 | 2.5 | .2 | 2.2 |
| Hours worked, n.s.k. ----- do .. | .4 | .5 | .5 | 1.4 | 1.4 | 1.3 | - | 1.3 |
| Hours worked on exploration and development (included above) ----- do .. | (Z) | (Z) | (Z) | (Z) | (Z) | (Z) | (Z) | (Z) |
| Gross book value of depreciable assets (usually original cost) at beginning of year ----- mil. dol .. | 449.4 | 449.4 | 448.3 | 472.9 | 470.3 | 461.2 | 16.0 | 442.5 |
| Buildings and other structures, except land ----- do .. | 26.7 | 26.7 | 26.6 | 55.9 | 55.8 | 54.0 | .8 | 53.2 |
| Machinery and equipment ----- do .. | 389.4 | 389.4 | 388.4 | 372.4 | 370.8 | 365.3 | 13.6 | 349.2 |
| Mineral exploration and development ----- do .. | .8 | .8 | .8 | 9.3 | 9.3 | 8.7 | 1.6 | 7.1 |
| Mineral land and rights ----- do .. | 32.5 | 32.5 | 32.5 | 35.3 | 34.4 | 33.2 | (Z) | 33.1 |
| Capital expenditures during year (except land and mineral rights) ----- do .. | 39.1 | 39.1 | 38.9 | 45.5 | 45.5 | 45.0 | 1.2 | 43.8 |
| New capital expenditures during year ----- do .. | 31.9 | 31.9 | 31.7 | 36.4 | 36.3 | 36.0 | 1.2 | 34.7 |
| Buildings and other structures, except land ----- do .. | 1.2 | 1.2 | 1.2 | 4.1 | 4.1 | 3.8 | (Z) | 3.8 |
| Machinery and equipment ----- do .. | 30.7 | 30.7 | 30.5 | 32.3 | 32.3 | 32.1 | 1.2 | 30.9 |
| Used capital expenditures during year ----- do .. | 6.8 | 6.8 | 6.8 | 8.4 | 8.4 | 8.3 | - | 8.3 |
| Buildings and other structures, except land ----- do .. | .1 | .1 | .1 | .4 | .4 | .4 | - | .4 |
| Machinery and equipment ----- do .. | 6.6 | 6.6 | 6.6 | 8.0 | 7.9 | 7.9 | - | 7.9 |
| Mineral exploration and development ----- do .. | .4 | .4 | .4 | .8 | .8 | .7 | - | .7 |
| Capitalized mineral land and rights ----- do .. | 5.5 | 5.5 | 5.5 | 1.5 | 1.5 | 1.4 | - | 1.4 |
| Deductions from depreciable assets during year ----- do .. | 21.8 | 21.8 | 21.8 | 31.1 | 31.0 | 30.4 | .3 | 30.1 |
| Buildings and other structures, except land ----- do .. | .4 | .4 | .4 | 1.0 | 1.0 | .9 | (Z) | .9 |
| Machinery and equipment ----- do .. | 19.6 | 19.6 | 19.6 | 28.1 | 28.0 | 27.6 | .3 | 27.3 |
| Mineral exploration and development ----- do .. | .3 | .3 | .3 | .5 | .5 | .5 | (Z) | .5 |
| Mineral land and rights ----- do .. | 1.4 | 1.4 | 1.3 | 1.4 | 1.4 | 1.4 | (Z) | 1.4 |
| Depreciation and depletion charges for year ----- do .. | 41.6 | 41.6 | 41.6 | 41.4 | 41.3 | 40.9 | 1.8 | 38.9 |
| Buildings and other structures, except land ----- do .. | 2.6 | 2.6 | 2.6 | 4.4 | 4.4 | 4.3 | .1 | 4.2 |
| Machinery and equipment ----- do .. | 37.7 | 37.7 | 37.7 | 34.8 | 34.7 | 34.5 | 1.7 | 32.7 |
| Mineral exploration and development ----- do .. | .1 | .1 | .1 | .7 | .7 | .7 | .1 | .6 |
| Mineral land and rights ----- do .. | 1.3 | 1.3 | 1.3 | 1.5 | 1.5 | 1.4 | (Z) | 1.3 |
| Gross book value of depreciable assets at end of year ----- do .. | 472.2 | 472.2 | 470.9 | 488.8 | 486.3 | 477.3 | 17.0 | 457.7 |
| Buildings and other structures, except land ----- do .. | 27.6 | 27.6 | 27.5 | 59.3 | 59.2 | 57.4 | .8 | 56.5 |
| Machinery and equipment ----- do .. | 407.2 | 407.2 | 406.0 | 384.5 | 383.0 | 377.8 | 14.5 | 360.7 |
| Mineral exploration and development ----- do .. | .9 | .9 | .9 | 9.6 | 9.6 | 8.9 | 1.6 | 7.3 |
| Mineral land and rights ----- do .. | 36.7 | 36.7 | 36.7 | 35.4 | 34.5 | 33.3 | (Z) | 33.2 |
| Rental payments during year ----- do .. | 2.1 | 2.1 | 2.1 | 3.9 | 3.9 | 3.8 | (Z) | 3.8 |
| Buildings and other structures, except land ----- do .. | (Z) | (Z) | (Z) | .1 | .1 | .1 | - | .1 |
| Machinery and equipment ----- do .. | 2.1 | 2.1 | 2.1 | 3.8 | 3.8 | 3.8 | (Z) | 3.7 |
| Lease rents ----- do .. | 1.6 | 1.6 | 1.6 | 1.8 | 1.8 | 1.8 | - | 1.8 |
| Expensed mineral exploration, development, land, and rights ----- do .. | 3.7 | 3.7 | 3.7 | 15.3 | 15.3 | 15.3 | - | 15.3 |
| Mineral exploration and development ----- do .. | .9 | .9 | .9 | 13.2 | 13.2 | 13.2 | - | 13.2 |
| Mineral land and rights ----- do .. | 2.8 | 2.8 | 2.8 | 2.1 | 2.1 | 2.1 | - | 2.1 |

Table 3c. Inventories by Industry: End of 1981 and 1982

(Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix)

| Item | Industry 1411, Dimension Stone | | Industry 1422, Crushed and Broken Limestone | | Industry 1423, Crushed and Broken Granite | | Industry 1429, Crushed and Broken Stone, N.E.C. | |
|---|-----------------------------------|----------------|---|----------------|---|----------------|---|----------------|
| | End of 1981 | End of 1982 | End of 1981 | End of 1982 | End of 1981 | End of 1982 | End of 1981 | End of 1982 |
| Total inventories¹ | 8.7 | 11.2 | 299.6 | 305.3 | 63.2 | 58.9 | 75.9 | 80.9 |
| Detail by method of valuation: | | | | | | | | |
| Subject to LIFO costing ² | (Z) | - | 52.0 | 59.4 | 21.3 | 19.0 | 7.0 | 7.2 |
| LIFO reserve | - | - | 12.3 | 12.9 | 6.0 | 6.1 | 1.2 | 1.5 |
| LIFO value | (Z) | - | 39.7 | 46.5 | 15.3 | 13.0 | 5.8 | 5.7 |
| Not subject to LIFO costing | 2.3 | 2.9 | 153.5 | 153.9 | 27.0 | 25.4 | 29.2 | 30.5 |
| Valuation method not reported ³ | 6.5 | 8.3 | 86.8 | 87.4 | 14.9 | 14.0 | 39.6 | 43.1 |
| Amount subject to LIFO reported without associated reserve and value ⁴ | - | - | 7.3 | 4.5 | - | .5 | (Z) | (Z) |
| Detail by type of inventory: | | | | | | | | |
| Mined or quarried products | 7.5 | 9.8 | 253.5 | 257.3 | 53.9 | 50.9 | 60.8 | 66.0 |
| Supplies, parts, fuels, etc | 1.2 | 1.4 | 46.1 | 47.9 | 9.4 | 8.1 | 15.1 | 14.9 |

¹Beginning in the 1982 economic censuses, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.²Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.³Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.⁴Includes data reported by respondents who indicated their inventories were subject to LIFO cost but did not provide associated LIFO reserve and value figures.

Table 4. Industry Statistics by Employment Size of Establishment: 1982

(For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix)

| Industry and employment size class | E ¹ | Estab- lishments during year (number) | All employees | | Production, development, and exploration workers | | | Value added by mining (million dollars) | Cost of supplies used, purchased machinery installed, etc. (million dollars) | Value of shipments and receipts (million dollars) | Capital expendi- tures (million dollars) |
|--|----------------|--|-------------------|---------------------------------|---|---------------------|-------------------------------|---|--|--|--|
| | | | Number (1,000) | Payroll (million dollars) | Number (1,000) | Hours (millions) | Wages (million dollars) | | | | |
| INDUSTRY 1411, DIMENSION STONE | | | | | | | | | | | |
| Total..... | E3 | 154 | 1.5 | 21.2 | 1.2 | 2.1 | 16.0 | 50.2 | 16.8 | 63.8 | 3.3 |
| Establishments during year with an average of— | | | | | | | | | | | |
| 0 to 4 employees..... | E8 | 68 | .1 | 1.6 | .1 | .2 | 1.5 | 4.1 | 1.7 | 5.3 | .5 |
| 5 to 9 employees..... | E4 | 37 | .3 | 3.6 | .2 | .4 | 3.1 | 9.7 | 3.8 | 12.8 | .6 |
| 10 to 19 employees..... | E4 | 27 | .4 | 4.9 | .3 | .5 | 3.7 | 9.4 | 3.4 | 12.3 | .6 |
| 20 to 49 employees..... | E2 | 20 | .8 | 11.1 | .6 | 1.0 | 7.7 | 27.0 | 8.0 | 33.4 | 1.6 |
| 50 to 99 employees..... | - | 1 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 100 to 249 employees..... | - | 1 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| Covered by administrative records ² | E9 | 46 | .1 | .8 | .1 | .1 | .8 | 2.5 | .9 | 3.2 | .2 |
| INDUSTRY 1422, CRUSHED AND BROKEN LIMESTONE | | | | | | | | | | | |
| Total..... | E1 | 1 314 | 25.8 | 497.9 | 19.8 | 40.0 | 350.6 | 1 228.7 | 712.1 | 1 756.1 | 184.7 |
| Establishments during year with an average of— | | | | | | | | | | | |
| 0 to 4 employees..... | E5 | 256 | .6 | 10.0 | .5 | .9 | 7.6 | 28.8 | 15.2 | 38.5 | 5.5 |
| 5 to 9 employees..... | E2 | 264 | 1.9 | 34.7 | 1.4 | 2.9 | 26.0 | 94.9 | 55.9 | 136.7 | 14.1 |
| 10 to 19 employees..... | E1 | 416 | 5.7 | 100.5 | 4.5 | 8.8 | 73.8 | 266.1 | 152.2 | 377.7 | 40.6 |
| 20 to 49 employees..... | E1 | 275 | 8.0 | 151.1 | 6.1 | 12.4 | 103.9 | 382.0 | 220.1 | 546.9 | 55.2 |
| 50 to 99 employees..... | E1 | 70 | 4.7 | 92.6 | 3.5 | 7.2 | 62.7 | 233.7 | 137.7 | 336.2 | 35.2 |
| 100 to 249 employees..... | - | 31 | 4.9 | 109.0 | 3.8 | 7.8 | 76.6 | 223.2 | 131.0 | 320.1 | 34.1 |
| 250 to 499 employees..... | - | 2 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| Covered by administrative records ² | E9 | 189 | .7 | 8.9 | .6 | 1.2 | 7.5 | 24.4 | 13.9 | 34.0 | 4.3 |
| INDUSTRY 1423, CRUSHED AND BROKEN GRANITE | | | | | | | | | | | |
| Total..... | - | 189 | 4.5 | 76.7 | 3.7 | 7.6 | 56.7 | 259.0 | 164.2 | 384.2 | 39.1 |
| Establishments during year with an average of— | | | | | | | | | | | |
| 0 to 4 employees..... | E2 | 30 | .1 | 1.2 | .1 | .1 | 1.0 | 5.5 | 6.0 | 10.3 | 1.2 |
| 5 to 9 employees..... | E2 | 25 | .2 | 2.9 | .1 | .3 | 2.3 | 10.1 | 8.8 | 14.5 | 4.4 |
| 10 to 19 employees..... | - | 44 | .7 | 11.0 | .5 | 1.2 | 8.3 | 36.6 | 20.7 | 52.8 | 4.5 |
| 20 to 49 employees..... | - | 71 | 2.1 | 36.9 | 1.8 | 4.0 | 28.6 | 129.2 | 78.0 | 192.5 | 14.8 |
| 50 to 99 employees..... | - | 17 | 1.5 | 24.7 | 1.2 | 2.1 | 16.5 | 77.7 | 50.7 | 114.2 | 14.2 |
| 100 to 249 employees..... | - | 1 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 250 to 499 employees..... | - | 1 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| Covered by administrative records ² | E9 | 18 | .1 | 1.0 | .1 | .2 | .9 | 4.2 | 2.5 | 6.0 | .7 |
| INDUSTRY 1429, CRUSHED AND BROKEN STONE, N.E.C. | | | | | | | | | | | |
| Total..... | E2 | 429 | 6.5 | 126.4 | 4.8 | 9.6 | 86.4 | 299.6 | 177.1 | 431.2 | 45.5 |
| Establishments during year with an average of— | | | | | | | | | | | |
| 0 to 4 employees..... | E6 | 134 | .3 | 4.0 | .2 | .4 | 3.4 | 11.8 | 6.8 | 16.4 | 2.2 |
| 5 to 9 employees..... | E3 | 104 | .7 | 14.0 | .5 | 1.0 | 9.6 | 34.9 | 16.3 | 47.5 | 3.7 |
| 10 to 19 employees..... | E2 | 92 | 1.3 | 24.9 | .9 | 1.8 | 16.6 | 54.6 | 33.6 | 78.7 | 9.5 |
| 20 to 49 employees..... | E1 | 72 | 2.1 | 44.8 | 1.6 | 3.1 | 30.2 | 102.3 | 65.1 | 151.9 | 15.6 |
| 50 to 99 employees..... | E3 | 22 | 1.4 | 27.9 | 1.0 | 2.2 | 18.7 | 63.5 | 34.2 | 88.2 | 9.6 |
| 100 to 249 employees..... | - | 5 | .7 | 10.8 | .5 | 1.1 | 7.9 | 32.5 | 21.1 | 48.5 | 5.0 |
| Covered by administrative records ² | E9 | 80 | .2 | 2.2 | .2 | .3 | 2.0 | 7.3 | 3.7 | 10.0 | 1.1 |

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1982—Con.

Note: Data shown as a (D) are included in underscored figures above

¹Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate data shown for these small establishments. Data are also included in respective size classes shown.

Table 5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1982 and 1977

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as resales or contract work. Columns A-E show this product pattern for an industry. Extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

| SIC code | Industry and year | Value of shipments and receipts | | | | | Value of net shipments of primary products or services | | |
|----------|---|---------------------------------|--------------------|--------------------|-----------------------|--|--|---------------------------|------------------------------|
| | | Total | Primary products | Secondary products | Receipts for services | Products purchased and resold without further processing | Total produced in all industries | Produced in this industry | Produced in other industries |
| | | A | B | C | D | E | F | G | H |
| 1411 | Dimension stone ----- 1982-- 1977-- | 63.8 49.0 | 60.5 45.4 | 2.6 2.5 | (D) (D) | (D) (D) | (D) 52.1 | (D) 45.4 | (D) 6.7 |
| 1422 | Crushed and broken limestone ----- 1982-- 1977-- | 1 756.3 1 378.5 | 1 643.2 1 278.7 | 73.9 76.6 | 22.1 14.5 | 17.1 8.6 | 1 739.1 1 345.4 | 1 629.7 1 266.3 | 109.4 79.1 |
| 1423 | Crushed and broken granite ----- 1982-- 1977-- | 384.2 272.5 | 377.2 269.1 | 6.4 2.9 | (D) (D) | (D) (D) | 389.9 (D) | 1375.6 (D) | 14.3 (D) |
| 1429 | Crushed and broken stone, n.e.c. ----- 1982-- 1977-- | 431.2 395.1 | 407.1 369.0 | 19.9 24.8 | 2.3 .8 | 1.9 .5 | 502.1 410.7 | 1406.4 1363.0 | 95.7 47.7 |

¹Represents net shipments obtained by subtracting minerals received for preparation from gross shipments.

Table 6. Products or Services for Selected States: 1982 and 1977

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

| Product code | Geographic area and product | 1982 product shipments | | 1977 product shipments | |
|--------------|---|------------------------|-------------------------|------------------------|-------------------------|
| | | Quantity | Value (million dollars) | Quantity | Value (million dollars) |
| | DIMENSION STONE | | | | |
| | United States | | | | |
| 1411-- | Dimension stone ----- | (X) | 68.0 | (X) | 52.1 |
| 1411 00 | Rough dimension limestone ----- 1,000 s. tons-- | 195.5 | 9.3 | 484.7 | 11.9 |
| 1411 00 | Rough dimension granite ----- do-- | 267.5 | 23.1 | 415.6 | 19.6 |
| 1411 00 | Other rough dimension stone (slate, marble, trap rock, sandstone, and miscellaneous stone) ----- do-- | 198.4 | 8.7 | 422.6 | 13.4 |
| 1411 00 | Rough dimension stone, n.s.k. ¹ ----- | (X) | 26.9 | (X) | 7.2 |
| | Georgia | | | | |
| 1411-- | Dimension stone ----- | (X) | 6.7 | (X) | 4.6 |
| 1411 00 | Rough dimension limestone ----- 1,000 s. tons-- | (D) | (D) | 97.6 | 3.5 |
| 1411 00 | Rough dimension granite ----- do-- | 51.1 | 3.3 | (X) | 1.0 |
| 1411 00 | Other rough dimension stone (slate, marble, trap rock, sandstone, and miscellaneous stone) ----- do-- | (D) | (D) | | |
| 1411 00 | Rough dimension stone, n.s.k. ¹ ----- | (X) | 1.1 | | |
| | Indiana | | | | |
| 1411-- | Dimension stone ----- | (X) | 5.2 | (X) | 3.1 |
| 1411 00 | Rough dimension limestone ----- 1,000 s. tons-- | 60.9 | 3.7 | 121.7 | 3.0 |
| 1411 00 | Rough dimension granite ----- do-- | - | - | - | - |
| 1411 00 | Other rough dimension stone (slate, marble, trap rock, sandstone, and miscellaneous stone) ----- do-- | (D) | (D) | - | - |
| 1411 00 | Rough dimension stone, n.s.k. ¹ ----- | (X) | (D) | (X) | .1 |

See footnotes at end of table.

Table 6. Products or Services for Selected States: 1982 and 1977—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

| Product code | Geographic area and product | 1982 | | | 1977 | | |
|--------------|--|---|-------------------|-------------------------|---|-------------------|-------------------------|
| | | Quantity of production for all purposes | Product shipments | | Quantity of production for all purposes | Product shipments | |
| | | | Quantity | Value (million dollars) | | Quantity | Value (million dollars) |
| | CRUSHED AND BROKEN LIMESTONE | | | | | | |
| | United States | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 538.7 | 442.2 | 1 753.4 | 649.1 | 540.2 | 1 357.8 |
| | Alabama | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 14.2 | 8.2 | 40.3 | 25.1 | 14.8 | 41.2 |
| | Arkansas | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 5.0 | 3.1 | 14.7 | 9.4 | 6.6 | 16.5 |
| | California | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 15.8 | 5.6 | 47.0 | 20.7 | 8.0 | 35.1 |
| | Colorado | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 4.8 | 2.2 | 8.5 | 4.5 | 1.9 | 5.1 |
| | Florida | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 41.3 | 29.0 | 133.8 | 25.9 | 25.7 | 56.1 |
| | Georgia | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 5.0 | 4.1 | 21.6 | 8.8 | 3.8 | 16.0 |
| | Illinois | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 39.4 | 42.2 | 149.0 | 43.9 | 42.8 | 107.8 |
| | Iowa | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 21.7 | 20.6 | 89.2 | 34.4 | 30.9 | 80.3 |
| | Kansas | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 9.1 | 6.8 | 28.7 | 12.9 | 9.5 | 24.8 |
| | Kentucky | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 30.6 | 28.4 | 98.2 | 33.7 | 33.5 | 82.9 |
| | Maryland | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 9.6 | 8.6 | 42.8 | 10.2 | 8.7 | 25.1 |
| | Missouri | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 35.6 | 29.7 | 104.0 | 44.5 | 33.9 | 83.2 |
| | New York | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 23.9 | 20.7 | 83.2 | 21.3 | 18.3 | 50.8 |
| | North Carolina | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 3.7 | 3.9 | 18.1 | 6.1 | 5.4 | 15.0 |

See footnotes at end of table.

Table 6. Products or Services for Selected States: 1982 and 1977—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

| Product code | Geographic area and product | 1982 | | | 1977 | | |
|--------------|--|---|-------------------|-------------------------|---|-------------------|-------------------------|
| | | Quantity of production for all purposes | Product shipments | | Quantity of production for all purposes | Product shipments | |
| | | | Quantity | Value (million dollars) | | Quantity | Value (million dollars) |
| | CRUSHED AND BROKEN LIMESTONE—Con. | | | | | | |
| | Ohio | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 26.7 | 24.0 | 85.5 | 46.7 | 39.4 | 97.7 |
| | Pennsylvania | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 43.9 | 33.1 | 152.5 | 55.8 | 44.6 | 120.9 |
| | Tennessee | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 23.0 | 20.8 | 81.3 | 32.2 | 30.5 | 77.9 |
| | Texas | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 49.4 | 39.0 | 126.7 | 37.0 | 31.6 | 61.8 |
| | Virginia | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 12.6 | 10.7 | 46.9 | 20.4 | 19.9 | 56.1 |
| | West Virginia | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 5.6 | 4.8 | 24.7 | 8.9 | 7.8 | 21.4 |
| | Wisconsin | | | | | | |
| 14220 00 | Crushed and broken limestonemil. s. tons.. | 14.3 | 14.0 | 44.3 | 14.1 | 13.9 | 27.4 |
| | CRUSHED AND BROKEN GRANITE | | | | | | |
| | United States | | | | | | |
| 14230 00 | Crushed and broken granite.....mil. s. tons.. | 97.5 | 98.1 | 391.5 | 107.6 | 109.8 | 281.6 |
| | California | | | | | | |
| 14230 00 | Crushed and broken granite.....mil. s. tons.. | 10.2 | 10.1 | 34.8 | 7.0 | 6.9 | 11.9 |
| | Georgia | | | | | | |
| 14230 00 | Crushed and broken granite.....mil. s. tons.. | 24.5 | 25.1 | 102.1 | 27.0 | 28.8 | 75.7 |
| | North Carolina | | | | | | |
| 14230 00 | Crushed and broken granite.....mil. s. tons.. | 21.9 | 22.2 | 92.4 | 22.5 | 22.4 | 58.4 |
| | Virginia | | | | | | |
| 14230 00 | Crushed and broken granite.....mil. s. tons.. | 14.4 | 14.6 | 59.4 | 13.7 | 14.0 | 35.3 |

See footnotes at end of table.

Table 6. Products or Services for Selected States: 1982 and 1977—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of the products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

| Product code | Geographic area and product | 1982 | | | 1977 | | |
|--------------|---|---|-------------------|-------------------------|---|-------------------|-------------------------|
| | | Quantity of production for all purposes | Product shipments | | Quantity of production for all purposes | Product shipments | |
| | | | Quantity | Value (million dollars) | | Quantity | Value (million dollars) |
| | CRUSHED AND BROKEN STONE, N.E.C. | | | | | | |
| | United States | | | | | | |
| 14290 00 | Crushed and broken stone, n.e.c.-----mil. s. tons-- | 121.5 | 117.8 | 502.8 | 148.4 | 148.0 | 416.7 |
| | Georgia | | | | | | |
| 14290 00 | Crushed and broken stone, n.e.c.-----mil. s. tons-- | 3.0 | 3.1 | 24.8 | 2.9 | 3.1 | 15.9 |
| | Hawaii | | | | | | |
| 14290 00 | Crushed and broken stone, n.e.c.-----mil. s. tons-- | 3.5 | 3.3 | 14.5 | 2.1 | 1.5 | 5.7 |
| | Illinois | | | | | | |
| 14290 00 | Crushed and broken stone, n.e.c.-----mil. s. tons-- | .8 | .7 | 2.4 | 8.5 | 9.0 | 20.7 |
| | Iowa | | | | | | |
| 14290 00 | Crushed and broken stone, n.e.c.-----mil. s. tons-- | 1.0 | 1.0 | 2.5 | (D) | (D) | (D) |
| | Kansas | | | | | | |
| 14290 00 | Crushed and broken stone, n.e.c.-----mil. s. tons-- | 2.0 | 2.0 | 7.4 | (NA) | (NA) | (NA) |
| | Massachusetts | | | | | | |
| 14290 00 | Crushed and broken stone, n.e.c.-----mil. s. tons-- | 7.4 | 6.6 | 27.1 | 4.4 | 3.6 | 10.6 |
| | New Jersey | | | | | | |
| 14290 00 | Crushed and broken stone, n.e.c.-----mil. s. tons-- | 17.3 | 17.0 | 65.3 | 11.0 | 10.9 | 34.5 |
| | New York | | | | | | |
| 14290 00 | Crushed and broken stone, n.e.c.-----mil. s. tons-- | 4.5 | 4.3 | 24.3 | 5.0 | 5.2 | 18.5 |
| | North Carolina | | | | | | |
| 14290 00 | Crushed and broken stone, n.e.c.-----mil. s. tons-- | 3.8 | 3.7 | 17.2 | 3.2 | 3.3 | 9.7 |
| | Oregon | | | | | | |
| 14290 00 | Crushed and broken stone, n.e.c.-----mil. s. tons-- | 7.2 | 6.5 | 23.9 | 8.6 | 8.2 | 22.2 |
| | Virginia | | | | | | |
| 14290 00 | Crushed and broken stone, n.e.c.-----mil. s. tons-- | 5.8 | 5.5 | 24.0 | 6.1 | 6.2 | 18.3 |
| | Wisconsin | | | | | | |
| 14290 00 | Crushed and broken stone, n.e.c.-----mil. s. tons-- | 2.7 | 2.7 | 16.0 | 12.4 | 13.0 | 22.0 |

¹Includes value for establishments that did not report detailed data and estimates for small companies (estimates were made from administrative-record data rather than collected from respondents).

Table 7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1982 and 1977

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

| Supply code | Industry and supply consumed | 1982 | | 1977 | |
|-------------|--|----------|----------------------------------|----------|----------------------------------|
| | | Quantity | Delivered cost (million dollars) | Quantity | Delivered cost (million dollars) |
| | INDUSTRY 1411, DIMENSION STONE | | | | |
| | Selected supplies used, minerals received for preparation, and purchased machinery installed..... | (X) | 11.0 | (X) | 8.7 |
| | Minerals or ores for preparation: | | | | |
| 141101 | Rough blocks used to produce dressed stone 1,000 s. tons.. | (D) | (D) | (Z) | (Z) |
| 141101 | Rough blocks used to produce dressed stone, mined and prepared at same establishment do.. | 14.5 | (X) | (NA) | (X) |
| 142101 | Broken stone received for preparation mil. s. tons.. | (D) | (D) | (D) | (D) |
| 144191 | Sand and gravel received for preparation do.. | (D) | (D) | (D) | (D) |
| 353020 | Purchased machinery installed, including mobile loading and transportation equipment | (X) | 1.0 | (X) | 2.2 |
| 353030 | Parts and attachments (except those listed elsewhere) for construction, mining, and conveying equipment; and for preparation machinery | (X) | (Z) | | |
| | Supplies used: | | | | |
| 289211 | Explosive materials, except ammonium nitrate mil. lb.. | .2 | .2 | .4 | .2 |
| 289212 | Ammonium nitrate do.. | .2 | (Z) | .5 | .1 |
| 289214 | Blasting accessories (X) | (X) | (D) | (X) | (D) |
| 300167 | Rubber and plastics products, including tires and tubes | (X) | .1 | (X) | .1 |
| 331201 | Steel mill shapes and forms (such as plates, sheets, roof bolts, bars, rails, wheels, pipe, tubing, wire products, and structural shapes)..... | (X) | .5 | (X) | .6 |
| 970099 | All other supplies | (X) | 2.9 | (X) | 3.8 |
| 974000 | Undistributed—minerals, purchased machinery, parts, attachments, and supplies used ¹ | (X) | 5.8 | (X) | 1.8 |
| | INDUSTRY 1422, CRUSHED AND BROKEN LIMESTONE | | | | |
| | Selected supplies used, minerals received for preparation, and purchased machinery installed..... | (X) | 453.1 | (X) | 391.1 |
| | Minerals or ores for preparation: | | | | |
| 141101 | Rough blocks used to produce dressed stone 1,000 s. tons.. | (D) | (D) | (NA) | (NA) |
| 141101 | Rough blocks used to produce dressed stone, mined and prepared at same establishment do.. | (D) | (X) | (NA) | (X) |
| 142101 | Broken stone received for preparation mil. s. tons.. | 2.8 | 14.3 | 8.5 | 12.4 |
| 144191 | Sand and gravel received for preparation do.. | (D) | (D) | .3 | 1.1 |
| 353020 | Purchased machinery installed, including mobile loading and transportation equipment | (X) | 90.7 | (X) | 145.4 |
| 353030 | Parts and attachments (except those listed elsewhere) for construction, mining, and conveying equipment; and for preparation machinery | (X) | 93.3 | | |
| | Supplies used: | | | | |
| 289211 | Explosive materials, except ammonium nitrate mil. lb.. | 63.4 | 26.4 | 67.7 | 21.1 |
| 289212 | Ammonium nitrate do.. | 80.3 | 11.5 | 125.5 | 12.7 |
| 289214 | Blasting accessories (X) | (X) | 4.5 | (X) | 4.5 |
| 300167 | Rubber and plastics products, including tires and tubes | (X) | 16.0 | (X) | 15.3 |
| 331201 | Steel mill shapes and forms (such as plates, sheets, roof bolts, bars, rails, wheels, pipe, tubing, wire products, and structural shapes)..... | (X) | 11.1 | (X) | 21.7 |
| 970099 | All other supplies | (X) | 74.3 | (X) | 80.2 |
| 974000 | Undistributed—minerals, purchased machinery, parts, attachments, and supplies used ¹ | (X) | 109.9 | (X) | 76.6 |
| | INDUSTRY 1423, CRUSHED AND BROKEN GRANITE | | | | |
| | Selected supplies used, minerals received for preparation, and purchased machinery installed..... | (X) | 117.9 | (X) | 88.2 |
| | Minerals or ores for preparation: | | | | |
| 142101 | Broken stone received for preparation mil. s. tons.. | 1.5 | 1.6 | (D) | (D) |
| 144191 | Sand and gravel received for preparation do.. | .1 | .2 | - | - |
| 353020 | Purchased machinery installed, including mobile loading and transportation equipment | (X) | 25.9 | (X) | 32.9 |
| 353030 | Parts and attachments (except those listed elsewhere) for construction, mining, and conveying equipment; and for preparation machinery | (X) | 32.2 | | |
| | Supplies used: | | | | |
| 289211 | Explosive materials, except ammonium nitrate mil. lb.. | 15.9 | 6.1 | 17.0 | 4.8 |
| 289212 | Ammonium nitrate do.. | 24.8 | 3.3 | 38.2 | 3.2 |
| 289214 | Blasting accessories (X) | (X) | .7 | (X) | (D) |
| 300167 | Rubber and plastics products, including tires and tubes | (X) | 5.4 | (X) | 4.6 |
| 331201 | Steel mill shapes and forms (such as plates, sheets, roof bolts, bars, rails, wheels, pipe, tubing, wire products, and structural shapes)..... | (X) | 6.1 | (X) | 5.6 |
| 370099 | All other supplies | (X) | 18.6 | (X) | 27.6 |
| 374000 | Undistributed—minerals, purchased machinery, parts, attachments, and supplies used ¹ | (X) | 17.7 | (X) | 7.8 |
| | INDUSTRY 1429, CRUSHED AND BROKEN STONE, N.E.C. | | | | |
| | Selected supplies used, minerals received for preparation, and purchased machinery installed..... | (X) | 113.5 | (X) | 88.8 |
| | Minerals or ores for preparation: | | | | |
| 141101 | Rough blocks used to produce dressed stone 1,000 s. tons.. | - | - | (D) | (D) |
| 141101 | Rough blocks used to produce dressed stone, mined and prepared at same establishment do.. | (D) | (X) | (NA) | (X) |
| 142101 | Broken stone received for preparation mil. s. tons.. | .3 | .7 | 3.8 | 6.0 |
| 144191 | Sand and gravel received for preparation do.. | .3 | .9 | (D) | (D) |
| 353020 | Purchased machinery installed, including mobile loading and transportation equipment | (X) | 22.4 | (X) | 31.3 |
| 353030 | Parts and attachments (except those listed elsewhere) for construction, mining, and conveying equipment; and for preparation machinery | (X) | 18.9 | | |

See footnotes at end of table.

Table 7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1982 and 1977—Con.

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

| Supply code | Industry and supply consumed | 1982 | | 1977 | |
|-------------|---|----------|----------------------------------|----------|----------------------------------|
| | | Quantity | Delivered cost (million dollars) | Quantity | Delivered cost (million dollars) |
| | INDUSTRY 1429, CRUSHED AND BROKEN STONE, N.E.C.—Con. | | | | |
| | Selected supplies used, minerals received for preparation, and purchased machinery installed—Con. | | | | |
| | Supplies used: | | | | |
| 289211 | Explosive materials, except ammonium nitrate | 11.7 | 4.9 | 12.5 | 4.5 |
| 289212 | Ammonium nitrate | 8.7 | 1.7 | 11.8 | 1.8 |
| 289214 | Blasting accessories | (X) | .8 | (X) | .8 |
| 300167 | Rubber and plastics products, including tires and tubes | (X) | 2.6 | (X) | 2.7 |
| 331201 | Steel mill shapes and forms (such as plates, sheets, roof bolts, bars, rails, wheels, pipe, tubing, wire products, and structural shapes) | (X) | 4.5 | (X) | 3.8 |
| 970099 | All other supplies | (X) | 21.3 | (X) | 18.3 |
| 974000 | Undistributed—minerals, purchased machinery, parts, attachments, and supplies used ¹ | (X) | 34.8 | (X) | 18.3 |

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Table 7b. Fuels Consumed by Type, 1982 and 1977, and End-of-Year Fuel Stocks, 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

| Fuel code | Industry and fuel consumed | 1982 consumption | | 1982 end-of-year stocks ¹ (quantity) | 1977 consumption | |
|-----------|---|------------------|----------------------------------|---|------------------|----------------------------------|
| | | Quantity | Delivered cost (million dollars) | | Quantity | Delivered cost (million dollars) |
| | INDUSTRY 1411, DIMENSION STONE | | | | | |
| | Fuels used | (X) | 2.3 | (X) | (X) | 1.8 |
| 121005 | Coal—bituminous, lignite, and anthracite | - | - | - | (Z) | (Z) |
| | Fuel oil: | | | | | |
| 291141 | Distillate (light) grade numbers 1, 2, 4, and light diesel fuel | 21.3 | .8 | 3.1 | 45.7 | .7 |
| 291151 | Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel | (D) | (D) | .1 | 14.9 | .2 |
| 131157 | Gas—natural, manufactured, and mixed | (D) | (D) | (X) | (Z) | (Z) |
| 291111 | Gasoline | .2 | .3 | (Z) | .6 | .3 |
| 960018 | Other fuels—liquefied petroleum gas, coke, wood, and other | (X) | (Z) | (X) | (X) | (Z) |
| 977000 | Undistributed fuels ² | (X) | 1.2 | (X) | (X) | .4 |
| | INDUSTRY 1422, CRUSHED AND BROKEN LIMESTONE | | | | | |
| | Fuels used | (X) | 114.0 | (X) | (X) | 66.3 |
| 121005 | Coal—bituminous, lignite, and anthracite | 30.4 | 1.1 | 2.9 | 103.8 | 3.5 |
| | Fuel oil: | | | | | |
| 291141 | Distillate (light) grade numbers 1, 2, 4, and light diesel fuel | 1 675.3 | 70.8 | 131.4 | 1 854.2 | 32.0 |
| 291151 | Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel | 83.5 | 2.6 | 5.2 | 138.4 | 1.9 |
| 131157 | Gas—natural, manufactured, and mixed | 1.1 | 4.5 | (X) | 3.6 | 6.6 |
| 291111 | Gasoline | 11.4 | 13.0 | 1.2 | 17.7 | 8.7 |
| 960018 | Other fuels—liquefied petroleum gas, coke, wood, and other | (X) | 1.3 | (X) | (X) | .6 |
| 977000 | Undistributed fuels ² | (X) | 20.6 | (X) | (X) | 13.1 |
| | INDUSTRY 1423, CRUSHED AND BROKEN GRANITE | | | | | |
| | Fuels used | (X) | 17.5 | (X) | (X) | 8.2 |
| 121005 | Coal—bituminous, lignite, and anthracite | - | - | - | (D) | (D) |
| | Fuel oil: | | | | | |
| 291141 | Distillate (light) grade numbers 1, 2, 4, and light diesel fuel | 349.4 | 14.7 | 23.8 | 333.3 | 5.7 |
| 291151 | Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel | (D) | (D) | (D) | (D) | (D) |
| 131157 | Gas—natural, manufactured, and mixed | (D) | (D) | (X) | (D) | (D) |
| 291111 | Gasoline | 1.7 | 1.8 | .2 | 1.4 | .8 |
| 960018 | Other fuels—liquefied petroleum gas, coke, wood, and other | (X) | .1 | (X) | (X) | (Z) |
| 977000 | Undistributed fuels ² | (X) | .9 | (X) | (X) | .9 |
| | INDUSTRY 1429, CRUSHED AND BROKEN STONE, N.E.C. | | | | | |
| | Fuels used | (X) | 25.6 | (X) | (X) | 16.2 |
| 121005 | Coal—bituminous, lignite, and anthracite | (D) | (D) | (D) | (D) | (D) |
| | Fuel oil: | | | | | |
| 291141 | Distillate (light) grade numbers 1, 2, 4, and light diesel fuel | 281.7 | 11.0 | 23.8 | 392.4 | 6.6 |
| 291151 | Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel | (D) | (D) | .9 | (D) | (D) |
| 131157 | Gas—natural, manufactured, and mixed | .5 | 2.0 | (X) | (D) | (D) |
| 291111 | Gasoline | 1.6 | 1.8 | .2 | 2.8 | 1.5 |
| 960018 | Other fuels—liquefied petroleum gas, coke, wood, and other | (X) | 2.1 | (X) | (X) | (D) |
| 977000 | Undistributed fuels ² | (X) | 6.7 | (X) | (X) | 4.2 |

¹Fuel stocks were collected for the first time in 1982.

²Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

APPENDIX

Explanation of Terms

Employment and related items—The report forms requested separate information on production, development, and exploration workers as of a payroll period for each quarter of the year and for other employees as of the payroll period which included the 12th of March.

All employees—This item includes all full-time and part-time employees on the payrolls of mining establishments for any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boarding houses, bunk houses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees, but proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers—This category includes employees (up through the working supervisor level) engaged in manual work: using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards. Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), record keeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Supervisory employees above the working supervisor level are excluded from this category.

All other employees—Nonproduction personnel at the establishment include those engaged in the following activities: Supervision above the working supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal,

personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and who are utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees—This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments were classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year—The 1982 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll—This term includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation; it excludes payments to the proprietor or partners, if an unincorporated concern, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production and development work but charged to employees and deducted from their wages. As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States. Respondents were told that in reporting they could follow the definition of payroll used for calculating the Federal withholding tax.

Production, development, and exploration worker hours—This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repairpersons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight-time equivalent hours. Hours of working proprietors or partners are excluded.

Supplemental labor costs—This item represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including social security contributions—This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs—Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining—This measure of mining activity is derived by subtracting the cost of supplies used, minerals received for preparation, purchased machinery installed, purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc.—Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1982 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year.

Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory. Separate figures were requested for: (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments; or such overhead costs as depreciation charges, rent, interest, and royalties.

Selected supplies used, minerals prepared, etc.—In addition to the total cost of supplies used, purchased machinery installed, etc., which every establishment was required to report, information was also collected on the consumption of major supplies used in mining. These inquiries were restricted to supplies which were important parts of the cost of production, exploration, and development of a particular industry and for which cost information was available. Table 7a contains information on specific supplies consumed. On report forms for almost all mineral industries except the contract services and the crude petroleum and natural gas industries, a uniform inquiry was included on minerals prepared at the reported establishments. Figures were obtained on crude minerals mined at the establishment (quantity), received from other establishments of the company or purchased from others (quantity and cost), and received for preparation on a custom or toll basis (quantity and estimated value). Establishments consuming less than a specified amount (usually \$25,000) were not required to report the cost of a supply. For small establishments for which administrative records were used, the cost of supplies was included in "not specified by kind." (See the section on "Summary of Findings" for the importance of administrative records to an industry.)

Value of shipments and receipts and net shipments—The amounts shown as value of shipments and receipts for each industry (tables 1-5), and for individual products or classes of products (table 6), are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges. "Shipments" include all products physically shipped from the establishment during 1982, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1982. Prepared material or concentrates include preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products

transferred to other plants of the company at their full economic value, i.e., to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes: (1) the value of all "primary" products of the industry, (2) the value of "secondary" products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products.

Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale. When this duplication is significant, figures generally are shown for both gross and net shipments. The net shipments are obtained by subtracting the value of crude minerals transferred to other establishments for preparation and the value of resales from the gross shipments.

Shipments of individual products—In the 1982 Census of Mineral Industries, information was collected on output for about 200 individual mineral products. In general, the shipments figures of the 1982, 1977, and 1972 Minerals Censuses were confined to separate totals for each crude and each prepared mineral. When shipments were significant, separate figures were also obtained on crude minerals going to preparation plants and those going to consumers.

Figures were collected on both quantity and value of shipments. Shipments include commercial shipments and transfers of products to other operations of the same company. For products that are used to a significant extent within the same establishment for power or heat, and for minerals mined and prepared in the same establishment, total production figures or separate data on production for such uses were collected. Typically, production was also collected for products for which there was usually significant differences between total production and total shipments because of stock changes.

For service industries, the amount received or due for services performed during 1982 was collected as a measure of output. For mine operators who also perform services, the amount received for such services was added to the total value of products shipped to determine total value of shipments and receipts for each establishment.

Table b provides the national and State total shipments figures from all industries for each of the products primary to the industry covered.

Capital expenditures—This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1982 were to be determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures were to include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment were to include those made for replacement purposes, as well as those for additions

to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Gross value of depreciable assets—Assets data were collected on buildings, other structures, machinery, equipment, capitalized mineral exploration and development, and mineral land and rights for which depreciation, amortization, or depletion accounts are maintained. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation cost). The data were collected for the beginning and end of the year. Assets at the beginning of the year plus new and used capital expenditures minus retirements should equal assets at the end of the year. For new construction or other improvement projects in progress but not completed by the end of the year, the cumulative capital expenditures were included in the beginning- and end-of-year assets figures.

Retirements—This item represents the gross value of depreciable assets sold, retired, scrapped, destroyed, abandoned, etc., during 1982. The values shown are the acquisition costs of the retired assets. This item includes the value of assets (at acquisition cost rather than current market value) transferred to other establishments of the same company.

Depreciation—This item shows the reduction in value of depreciable assets brought about through use, gradual obsolescence, or the effect of the elements (decay or corrosion) during the year. Included are charges against assets acquired or completed during the year.

Rental payments—This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Current account expenditures—This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories—This item includes inventories of mined or quarried products, and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning in the

1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method. The inventory figures for 1982, therefore, will not be comparable to prior census data because of the change in reporting instructions.

Fuels and electric energy used—This item includes the quantity and cost of fuels and electric energy used in mining. For most industries, separate quantity and cost figures are shown for purchased coal, distillate fuel oil, residual fuel oil, gas, gasoline, and electric energy, and a cost figure is shown for "other fuels" (see

table 7b). Data were also obtained on the quantity of fuels and electric energy produced and consumed at the same establishment. These data are shown for coal, crude petroleum, and natural gas used at the producing establishments for heat and power, and for electric energy generated and used at the same mining operations. In addition, figures for stocks of purchased fuels on hand at the end of the year were reported for the first time in 1982. Every establishment was required to report the total quantity of unexpended fuel it had on hand, including emergency reserves, at the end of the year. Excluded are fuels to be used as feedstocks or raw materials. For electric energy, the quantity generated and used is approximated by subtracting the quantity of electric energy sold from the total quantity generated (excluding generating station use).

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PUBLICATION PROGRAM

1982 CENSUS OF MINERAL INDUSTRIES

Publications of the 1982 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

Preliminary Reports

Preliminary data from the 1982 census have been issued in 12 industry and 2 summary reports covering all of the 42 mineral industries. These reports are superseded by more detailed final reports.

Final Reports

Final detailed statistics are issued in separate paperbound reports.

Industry series—12 reports (MIC82-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 42 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased, quantity of fuel stocks, and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization and depletion; payrolls; hours worked; cost of purchased machinery; value added by mining; mineral development and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC82-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States for two- and three-digit industry groups by type of operation and by county. Also, data are shown for value of shipments, value added by mining, employment, payroll, hours worked, capital expenditures, cost of supplies, etc., purchased machinery

installed, and number of mining establishments, with comparative 1977 data on employment and value added by mining.

Subject series—7 reports (MIC82-S-1 to -7)

Each of the 7 reports contains detailed statistics for an individual subject, such as water use in mineral industries; gross value of depreciable assets, capital expenditures, retirements, depreciation and rental payments; size of establishments; type of operation; fuels and electric energy consumed; type of organization; and a general National-level summary.

Final Report Volume

Final paperbound reports are subsequently assembled and reissued in one clothbound volume.

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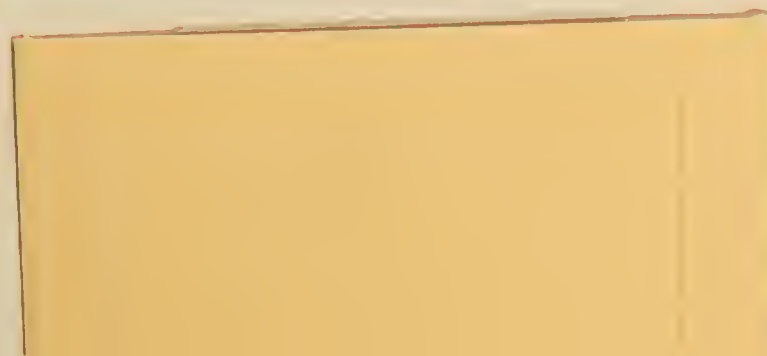
All published data are also available on microfiche.

Availability of Public Use Computer Tapes

Public-use computer tapes for the census of mineral industries are not included as part of the economic census publication program. Special tabulations can be made available on computer tape on a contract, cost-reimbursable basis. Contact Industry Division, Bureau of the Census, Washington, D.C. 20233 for more information.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, construction industries, manufactures, enterprise statistics, minority-owned businesses, women-owned businesses, and transportation also are issued as part of the 1982 Economic Censuses. A separate series of reports covers the censuses of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Northern Mariana Islands. All published reports and microfiche are sold by the Superintendent of Documents, U.S. Government Printing Office. Appropriate announcements and order forms describing these products are available free of charge from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.



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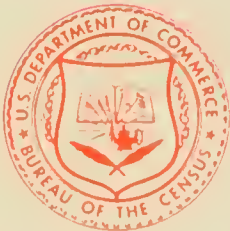
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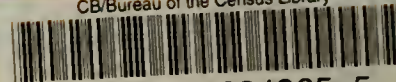
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